

European Research Council Convocatorias WP 2025

Webinar II: Cómo preparar una propuesta ERC- Consolidator Grant 2025

**18 de octubre de 2023
Estefanía Muñoz
National Contact Point ERC
FECYT**

Webinar II – cómo preparar una propuesta ERC-COG-2025



- Los participantes están silenciados.
- Las preguntas se formulan por: www.menti.com code **5231 0040**
- Las presentaciones se colgarán en: <https://www.horizonteeuropa.es/3-webinars-para-ayudar-preparar-erc-consolidator-grant-2025>
- El seminario se está grabando y quedará accesible a través del enlace anterior.
- La plataforma GoToWebinar lanzará una encuesta de satisfacción. Os agradecemos mucho que la contestéis porque nos ayuda a mejorar.
- Uso de las siglas PI (Principal Investigator) y el lenguaje inclusivo
Aun cuando determinados sustantivos sean referenciados en género masculino, este debe entenderse como género gramatical no marcado e inclusivo.
- Descargo de responsabilidad: esta presentación se basa en aprendizajes personales y no constituye una fuente directa ni del ERC ni de la CE.

Delegación española del programa ERC

Representante
Comité de Programa
ERC

National Contact Points ERC
erc@fecyt.es

Técnico Ciencia
Excelente (ERC)

Técnica soporte a
servicios ERC



Jose Luis García
CIB-CSIC



Estefanía Muñoz
FECYT, MICIU



Leticia Riaza
FECYT, MCIU, ISCIII



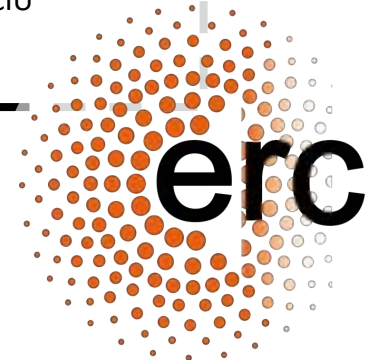
Ana Martínez
Univ. Alicante



Julio Marchamalo
FECYT, MCIU, ISCIII



Carmen Estévez
FECYT, MICIU



Webinar II – cómo preparar una propuesta ERC-COG-2025

- **Plantillas**
- **Criterios de evaluación dentro de la lógica del Why-What-How**
- **Estructura Part B1 & Part B2 y aclaración de los conceptos más importantes**
- **Algunos ejemplos**
- **Evaluation Summary Reports**
- **Budget**
- **Ethical issues**



European Research Council

Established by the European Commission

INDIVIDUAL RESEARCHERS
FROM ALL OVER THE WORLD

LONG TERM GRANTS

~~TO HIGH-RISK/HIGH-GAIN~~ PIONEERING PROJECTS
IN ANY FIELD OF FRONTIER RESEARCH



Life Sciences



Physical Sciences and Engineering



Social Sciences and Humanities

Evaluation of ERC grant proposals

Excellence is the sole evaluation criteria

applied to the Research Project + PI

The evaluation should give more weight to the project than to the applicant.

Broad assessment of the applicant
CV and track record merged in a 4 pages template

- Include up to 10 research outputs
- Narrative elements



Evaluation primarily **focused** on the **research project**.

Streamlined evaluation questions:

- Ground-breaking
- Ambition
- Feasibility
- ~~high risk-high gain~~



Each proposal page:

header [PI's last name, acronym of the proposal, and the reference to the respective proposal section (**Part B1** or **Part B2**)]

The following parameters must be respected for the layout:

Page limits will be strictly applied!

Page Format	Font Type	Font Size	Line Spacing	Margins
A4	Times New Roman Arial or similar	At least 11	Single	2 cm side 1.5 bottom

The ERC proposal

Intrigue (part B1)

Convince (part B2)

Inspire (Parts B1+B2+ interview)



- Important challenges
- Ambitious objectives beyond SoA (novel concept or approach)
- Feasibility of outlined scientific approach
- Appropriate research methodology and working arrangements
- Timescales and resources and PI commitment

ERC 2025 – individual Schemes - Structure of the proposal

One deadline | 2 steps evaluation process

The ERC full proposal = part B1 + part B2 + Part A*

Part B1 - pdf

Cover Page and
summary (1p)
Extended Synopsis (5p)
Curriculum vitae +
Track-record (4p)

Evaluated in Step 1

Part B2 - pdf

(14p)

Sa: SoA & objectives

Sb: Methodology

Appendix. Funding ID

***NOT evaluated in Step
1 (only in Step 2)***

Part A – online forms

A1 General Information
A2 Participants
A3 Budget* table + description
(8000c)
A4 Ethics and security
A5 Other questions
 % Time commitment*
 Excluded Reviewers (up to 3)

Annexes

HI support letter
PhD certificate
Ethics and security issues
Eligibility window

ERC 2025 – Evaluation criteria used to assess Part B1

Research Project

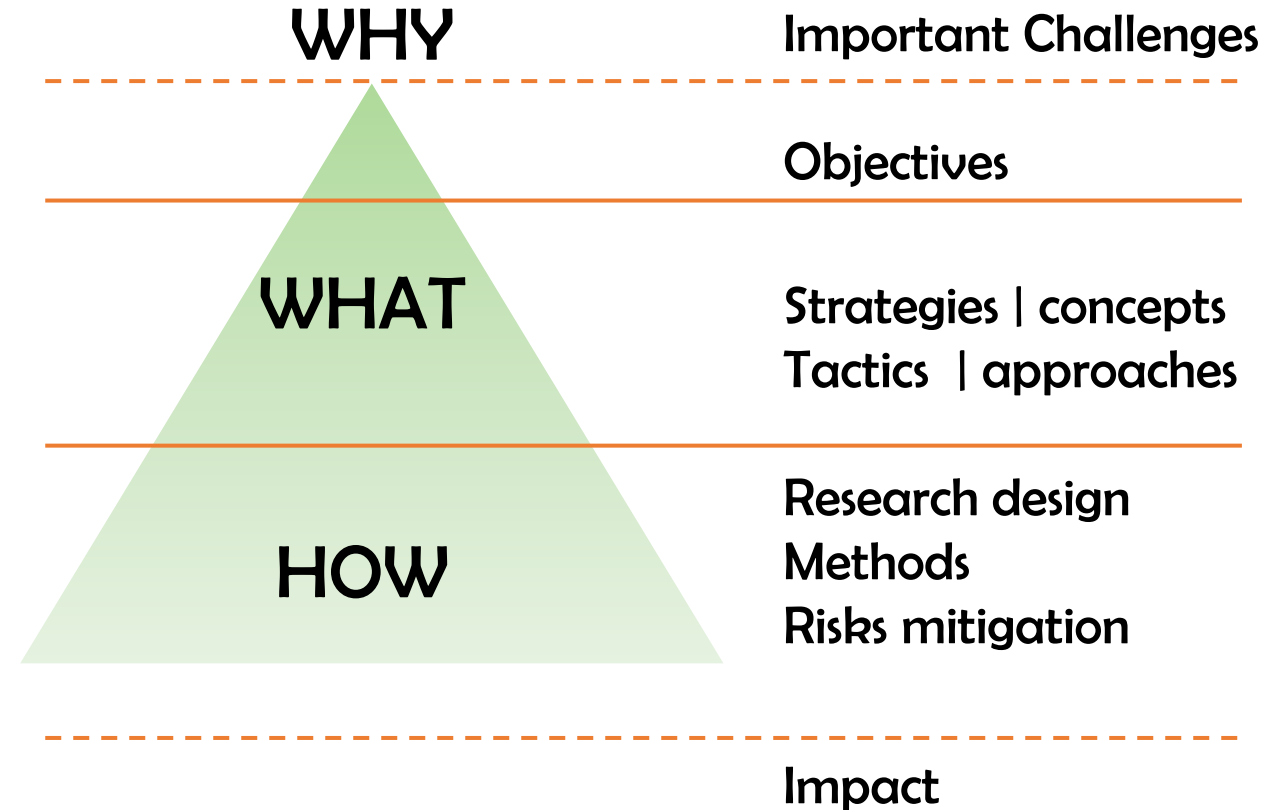
- Ground-breaking nature, ambition and feasibility

Ground-breaking nature and potential impact of the research project (B1+B2)

- does the proposed research address important challenges?
- are the objectives ambitious and beyond the state of the art? e.g. novel concepts and approaches or development between or across disciplines?

Scientific Approach

- is the outlined scientific approach feasible ... ground-breaking nature and ambition of the proposed research? (B1)



ERC 2025 – Evaluation criteria used to assess Part B2

Research Project

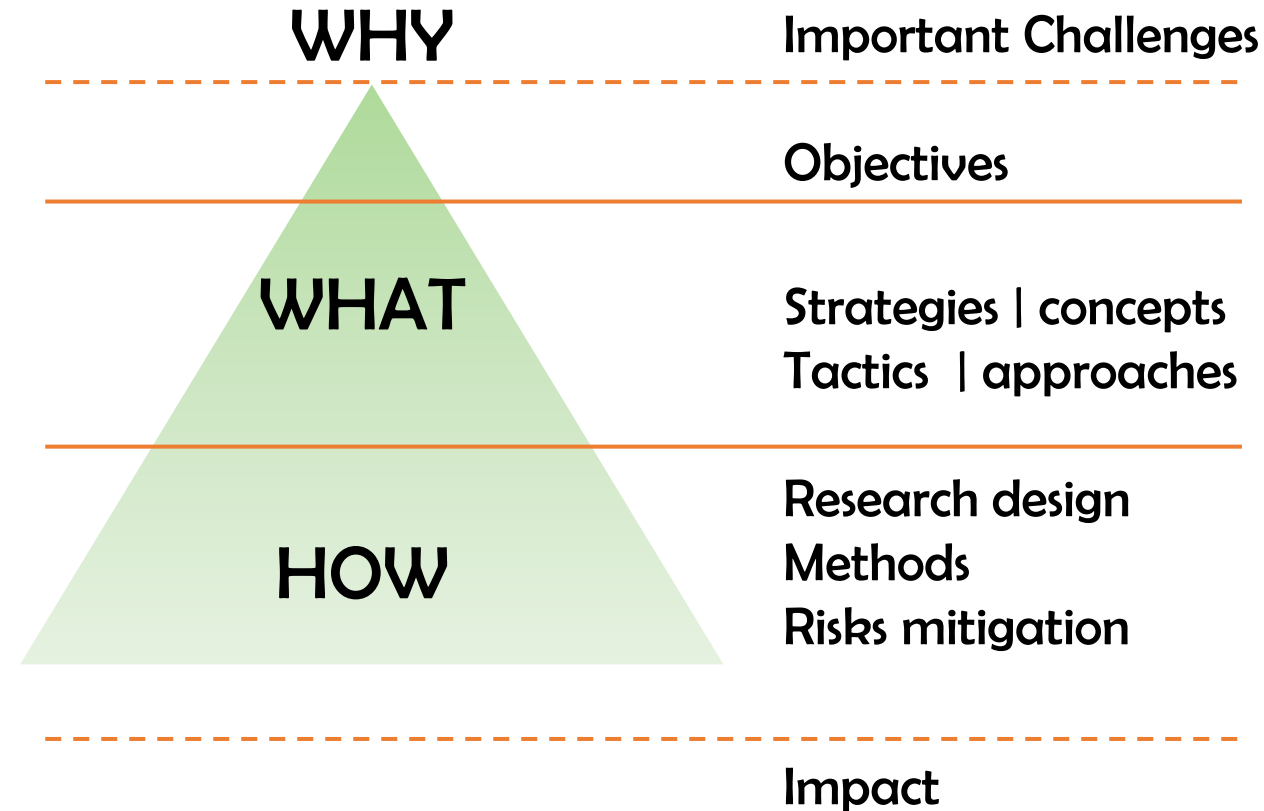
- Ground-breaking nature, ambition and feasibility

Ground-breaking nature and potential impact of the research project (B1+B2)

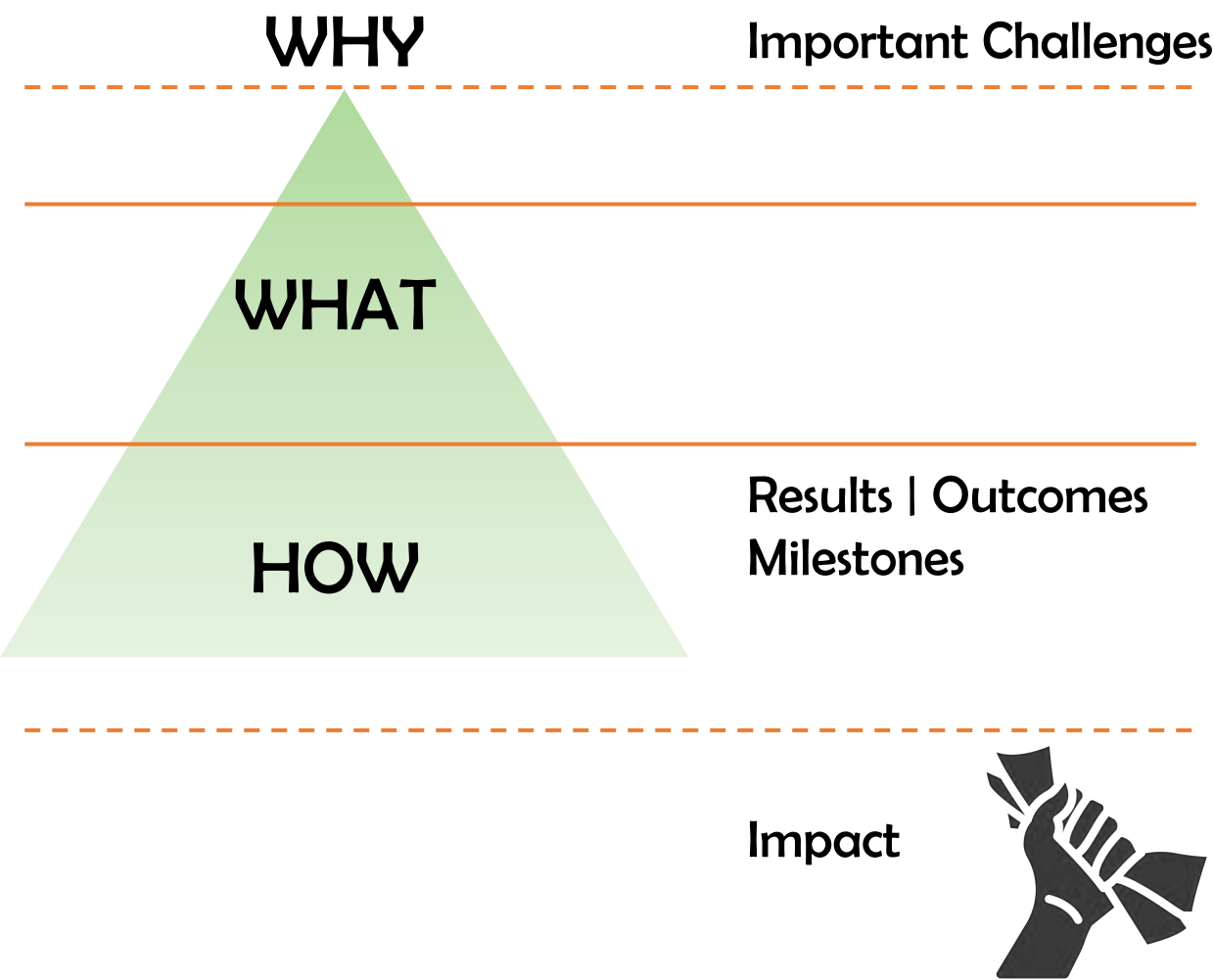
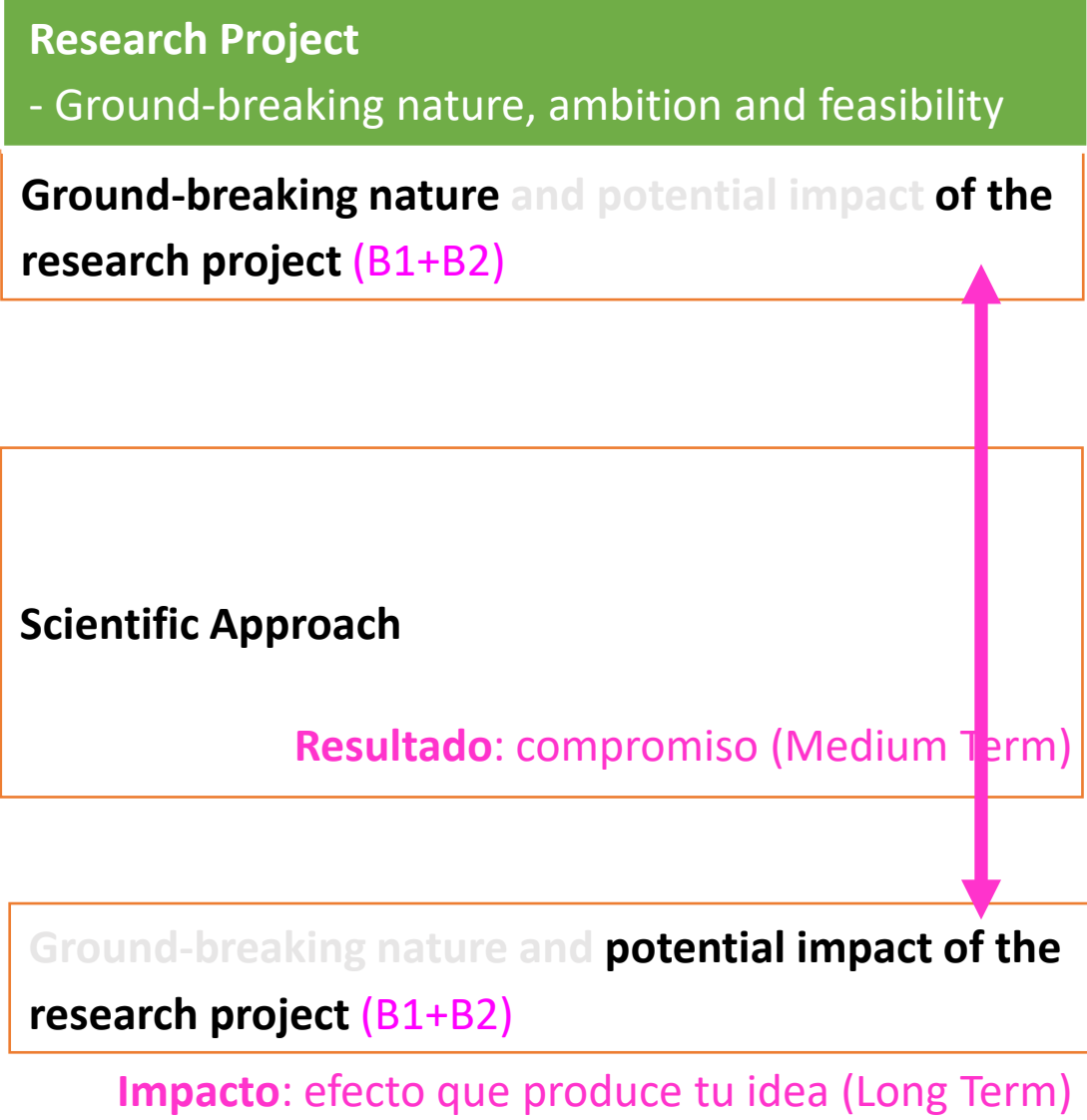
- does the proposed research address important challenges?
- are the objectives ambitious and beyond the state of the art? e.g. novel concepts and approaches or development between or across disciplines?

Scientific Approach

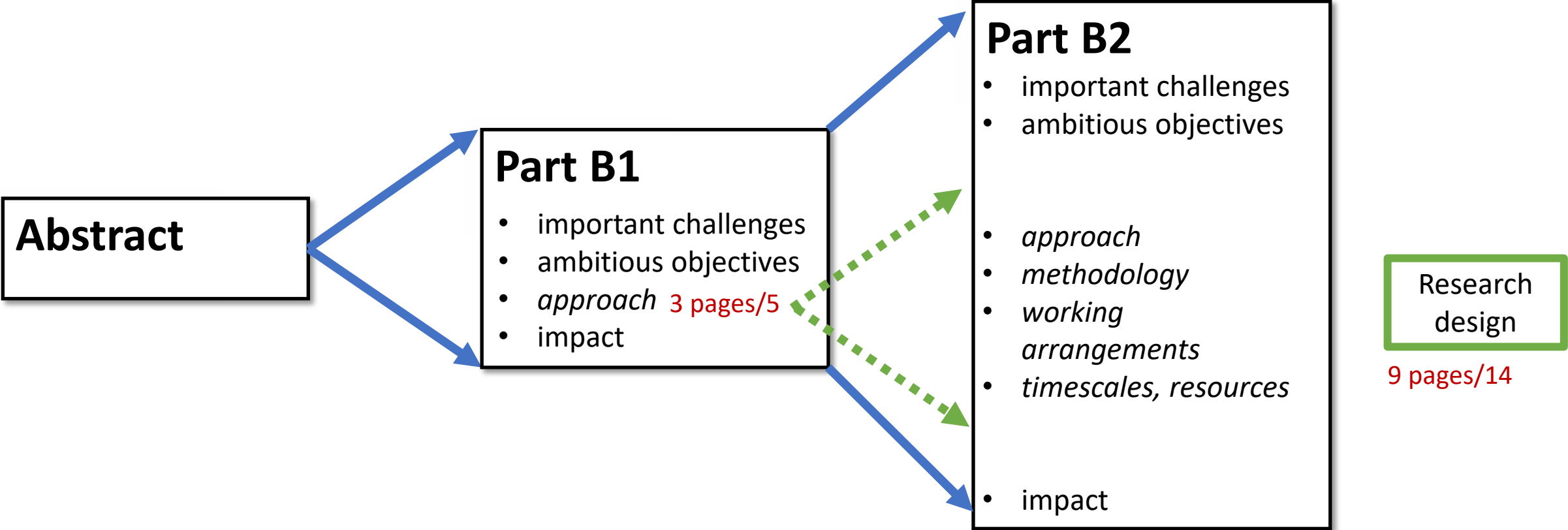
- is the outlined scientific approach feasible ... ground-breaking nature and ambition of the proposed research? (B1)
- are the proposed research methodology and working arrangements appropriate to achieve the goals of the project? (B2)
- are the proposed timescales, resources and PI commitment adequate and justified? (B2)



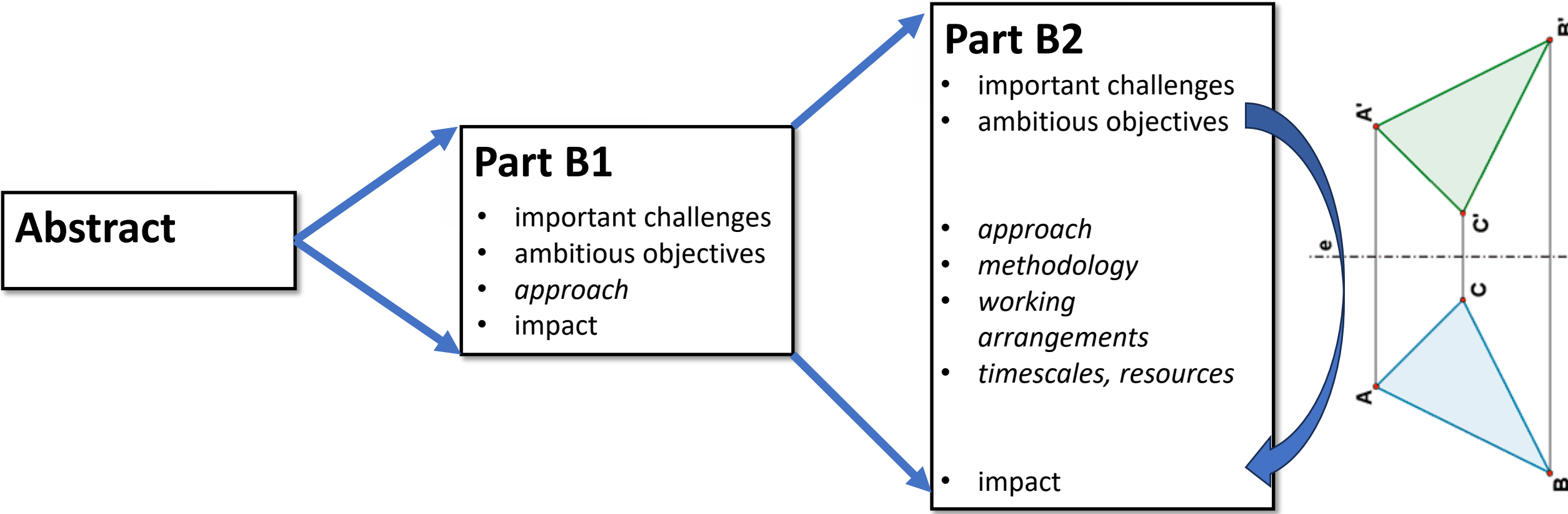
ERC 2025 – Evaluation criteria used to asses Part B1 and B2



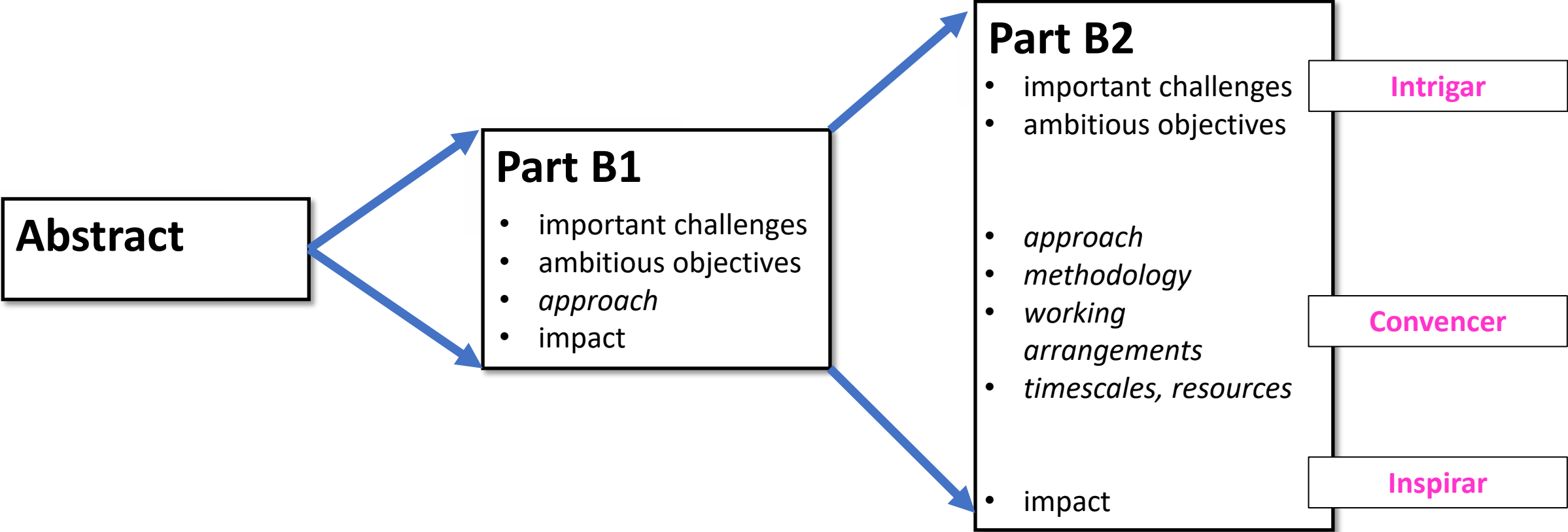
ERC 2025 –Structure of the proposal



ERC 2025 –Structure of the proposal



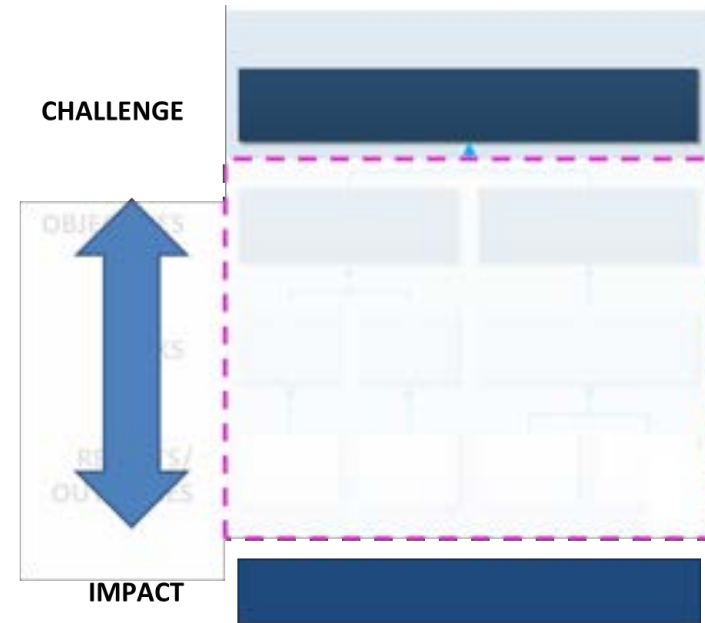
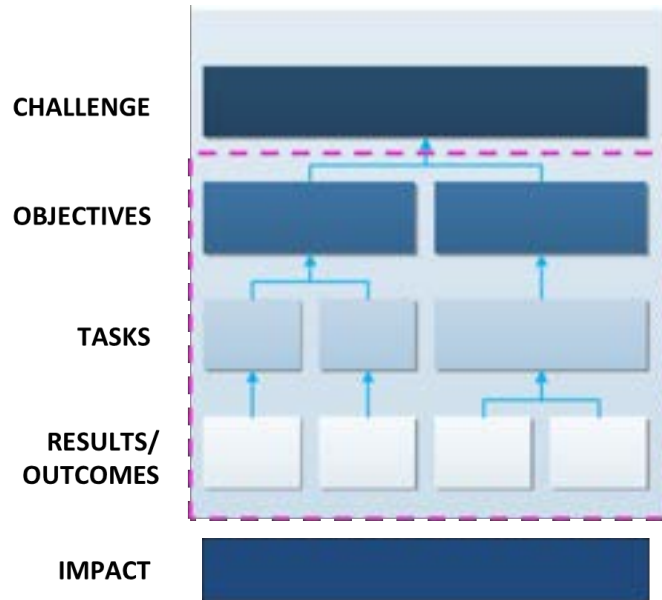
ERC 2025 –Structure of the proposal



Estructura

Narración de la propuesta encuadrada en un marco lógico-conceptual que permita entender la ejecución del proyecto como consecuencia de un conjunto de acontecimientos relacionados y que tienen un orden conceptual.

Hilo argumental que conteste a los criterios de evaluación



ERC COG 2025

ERC Proposal: Part B1a + Part B2

Abstract (A forms)



Proposal Submission Forms
European Research Council Executive Agency

Proposal ID SEP-210480754Acronym AdG-2020

1 - General information

Topic ERC-2020-ADGType of Action ERC-ADG

Call Identifier ERC-2020-ADGDeadline Id ERC-2020-ADG

AcronymAdG-2020

Proposal title

The title should be no longer than 200 characters (with spaces) and should be understandable to the non-specialist in your field.
Note that for technical reasons, the following characters are not accepted in the Proposal Title and will be removed: < > " &

Duration in months

Primary ERC Review Panel*LS6 - Immunity and Infection

Secondary ERC Review Panel(if applicable)

ERC Keyword 1*As first keyword please choose one which is linked to the Primary Review Panel.
Please select, if applicable, the ERC keyword(s) that best characterise the subject of your proposal in order of priority.

ERC Keyword 2Not applicable

ERC Keyword 3Not applicable

ERC Keyword 4Not applicable

Free keywordsIn addition, please enter free text keywords that you consider best characterise the scope of your proposal. The choice of keywords should take into account any multi-disciplinary aspects of the proposal.



Proposal Submission Forms
European Research Council Executive Agency

Proposal ID SEP-210480754Acronym AdG-2020

Abstract*

Short Summary

Idéntico al de la part B1a

Remaining characters1996

In order to best review your application, do you agree that the above non-confidential proposal title and abstract can be used, without disclosing your identity, when contacting potential reviewers?
☐ Yes ☐ No

The abstract will be used as a short description of your research proposal in the evaluation process and in communications to contact in particular the potential **remote referees**.



Abstract (A forms)

El **abstract** sin datos personales es la información que se manda a los referees externos después del panel meeting de la 1ª fase de la evaluación para que intervengan evaluando durante la segunda fase de la evaluación

In order to best review your application, do you agree that the above non-confidential proposal title and abstract can be used, without disclosing your identity, when contacting potential reviewers?*

☐ Yes

☐ No

Se fijan en las **Free keywords** proporcionadas para identificar a los potenciales Referees externos

Free keywords

In addition, please enter free text keywords that you consider best characterise the scope of your proposal. The choice of keywords should take into account any multi-disciplinary aspects of the proposal.

Abstract (Part B1a)

Applicant's last name Part B1 ACRONYM

ERC Consolidator Grant 2024
Research proposal [Part B1]¹
(Part B1 is evaluated in Step 1 and Step 2;
Part B2 is evaluated in Step 2 only)

Proposal Full Title
PROPOSAL ACRONYM

Cover Page:
- Name of the Principal Investigator (PI)
- List the other PI's Host Institution for the project
- Proposal duration in months

Please delete all text highlighted in grey in this template.

Proposal summary (identical to the abstract from the online proposal submission form, section I).

The abstract (summary) should, at a glance, provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved. The abstract will be used as the short description of your research proposal in the evaluation process and in communications to contact in particular potential independent external experts and/or to inform the Commission and/or the programme management committee and/or relevant national funding agencies. It must therefore be short and precise and should not contain confidential information.

Please use plain typed text, avoiding formulae and other special characters. The abstract must be written in English. There is a limit of 2000 characters (spaces and line breaks included).

Explain and justify the cross-panel or cross-domain nature of your proposal, if a secondary panel is indicated in the online proposal submission form. There is a limit of 1000 characters, spaces and line breaks included.

¹ Instructions for completing Part B1 can be found in the "Information for Applicants to the Starting and Consolidator Grant 2024 Call".

1

The abstract should provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved.

- Short and precise.
- Plain typed text, no formulae and other special characters.
- English.
- Up to 2000 characters (spaces and line breaks included).
- No confidential information
- Identical to A forms

Cross-panel box. If a secondary panel is indicated in the A forms.

Abstract (Part B1a)

ERC Starting Grant 2024
Research proposal [Part B1]

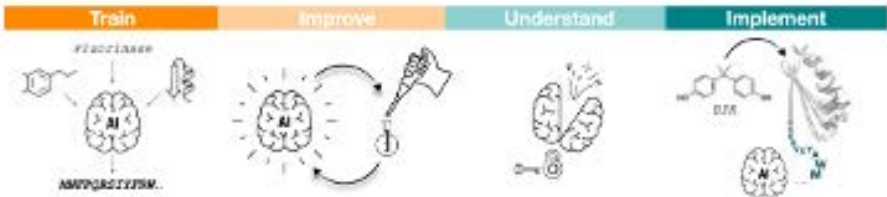
An intelligent agent for general-purpose protein engineering ATHENA

- Name of the Principal Investigator (PI): Noelia ~~Estroff~~
- Host Institution for the project: Molecular Biology Institute of Barcelona (IBMB-CSIC)
- Proposal duration in months: 60

Proteins offer an exciting path to address a multitude of biotechnological challenges. Functionally encoded by amino acid sequences and capable of working under non-toxic, mild conditions, their controllable design has been pursued for decades. Even though Artificial Intelligence (AI)-based models have recently made giant strides in computational protein design, it is evident that we cannot yet design proteins as efficient as those present in nature. To gain a technological advantage in a world with pressing demands in sustainability and healthcare, we must **improve** and **accelerate** the development of **tailored, proficient** proteins.

In ATHENA, I aim to develop a **multi-task intelligent agent** capable of efficiently engineering functional proteins tailored to user-defined specifications. To achieve this goal, the agent will be trained using available sequence, structural, functional, and dynamic data to perform multiple protein engineering tasks. The agent will iteratively improve from experimental feedback using **Reinforcement Learning**, and **explainable AI** will allow us to *'open the black box'* and understand its decision-making process. A vital component of this work will be its rigorous **experimental validation**, tackling traditionally challenging tasks with biotechnological applications.

ATHENA will deliver an intelligent agent with continuous learning capabilities, freely accessible through user-friendly interfaces, empowering researchers worldwide with an easy-to-use tool for tailored protein design. Through incorporating XAI, this project will provide a new angle to understanding fundamental **sequence-to-function relationships**. Moreover, a comprehensive experimental validation process will offer innovative solutions to biotechnological and environmental challenges complex to address with currently available approaches.

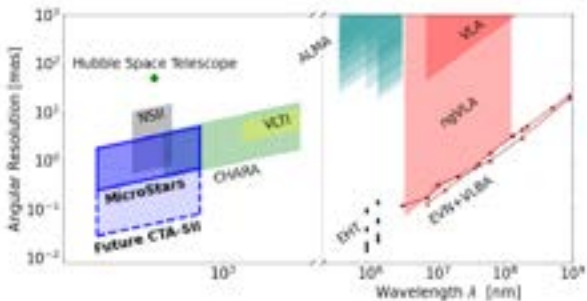


ERC Starting Grant 2022
Research proposal [Part B1]
(Part B1 is evaluated both in Step 1 and Step 2,
Part B2 is evaluated in Step 2 only)

Extreme time and angular resolution in the optical with Cherenkov telescopes

MicroStars

Name of the Principal Investigator (PI): Tarek Hassan
Name of the PI's host institution for the project: CIEMAT
Proposal duration in months: 60 months



Proposal summary:

The universe in the visible wavelength remains largely unexplored in the sub-second time regime and sub-milliarsecond scale, primarily due to instrumental limitations. Overcoming these impediments would bring a breakthrough in our knowledge of stellar physics, evolution and modelling by imaging the stars and their surroundings as well as unravel the history of the Solar System.

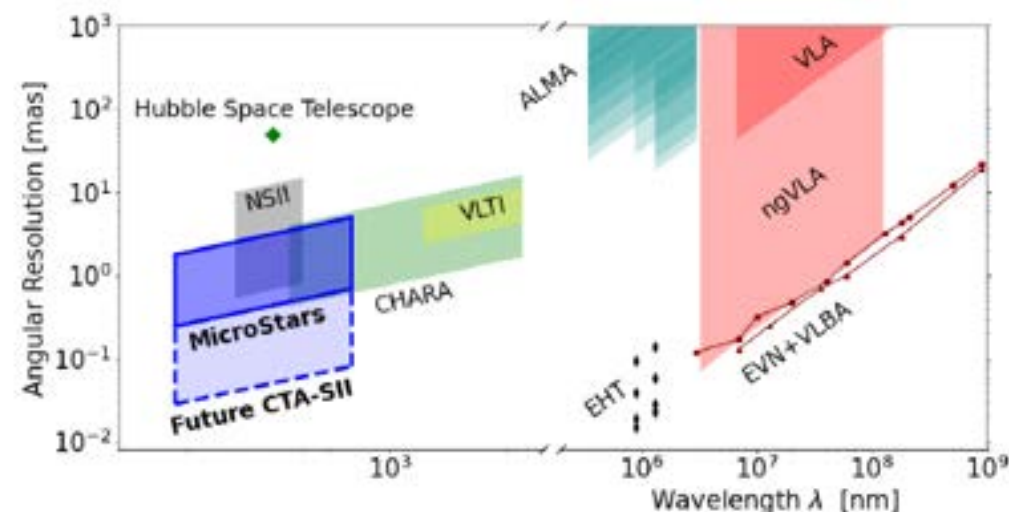
MicroStars will demonstrate the viability of a cost-effective and novel solution to enhance the capabilities of Imaging Atmospheric Cherenkov Telescopes (IACTs) to perform ultra-fast optical measurements. Such an upgrade allows two novel applications of these telescopes in the visible range: their use as Stellar Intensity Interferometers and as high-time-resolution, fast, high-precision photometers.

MicroStars will allow to expand the limiting time and angular resolution of current optical observatories by at least an order of magnitude. By upgrading the capabilities of next-generation IACTs, MicroStars has the potential of creating a host of scientific breakthroughs, answering fundamental questions regarding stellar physics, magnetic activity and modelling, exoplanet properties and the Solar System planetary formation. The interdisciplinary and field-transforming nature of MicroStars, merging astroparticle physics instrumentation with optical astronomy, will extend the scientific life of current IACT experiments, and greatly expand the scientific impact of the next generation: the Cherenkov Telescope Array. Bringing this proposal to life is **only possible with an ambitious funding scheme**, willing to finance the major equipment needed, and support a research team with the required multidisciplinary skills to expand the state of the art with novel instrumentation and methodologies.

Abstract (Part B1a)

Resultado: compromiso (Medium Term)

Impacto: efecto que produce tu idea (Long Term)



Proposal summary:

The universe in the visible wavelength remains largely unexplored in the **sub-second time regime** and **sub-milliarcsecond scale**, primarily due to instrumental limitations. Overcoming these impediments would bring a breakthrough in our knowledge of **stellar physics, evolution and modelling** by **imaging the stars and their surroundings** as well as **unravel the history of the Solar System**.

MicroStars will demonstrate the viability of a cost-effective and novel solution to enhance the capabilities of **Imaging Atmospheric Cherenkov Telescopes (IACTs)** to perform **ultra-fast optical measurements**. Such an upgrade allows two novel applications of these telescopes in the visible range: their use as **Stellar Intensity Interferometers** and as **high-time-resolution, fast, high-precision photometers**.

MicroStars will allow to expand the limiting time and angular resolution of current optical observatories **by at least an order of magnitude**. By upgrading the capabilities of next-generation IACTs, **MicroStars has the potential of creating a host of scientific breakthroughs**, answering fundamental questions regarding **stellar physics, magnetic activity and modelling, exoplanet properties** and the **Solar System planetary formation**. The interdisciplinary and field-transforming nature of MicroStars, merging astroparticle physics instrumentation with optical astronomy, will extend the scientific life of current IACT experiments, and greatly expand the scientific impact of the next generation: the Cherenkov Telescope Array. Bringing this proposal to life is **only possible with an ambitious funding scheme**, willing to finance the major equipment needed, and support a research team with the required multidisciplinary skills to expand the state of the art with novel instrumentation and methodologies.

Abstract (Part B1a)

Summary:

Extreme events often cause local-initial damage to the critical elements of building structures, followed by a cascade of further failures in the rest of the building; a phenomenon known as “progressive collapse”. Current design philosophies are based on giving buildings extensive continuity, so that when a critical element fails its load can be re-distributed among the rest of the structure. *However, in certain situations (e.g. initial failure of several columns) this extensive continuity introduces undesirable effects and actually increases the risk of progressive collapse.*

Segmenting a building into individual units connected only by means of fuses would avoid a failure in one zone propagating to others. While such fuses would provide continuity for normal loads or small local-initial failure, they would “isolate” the different parts of the building when otherwise the forces generated by the initial failure would pull down the rest of the structure. *Although fuse segmentation is probably the only alternative that can fill the gaps in the present design philosophies, so far, no studies have been carried out on the possibility of applying it to buildings.*

Endure’s overall aim is to develop a novel fuse-based segmentation design approach to limit or arrest the propagation of failures in building structures subjected to extreme events.

The project will be multidisciplinary and highly ambitious, and will achieve its overall aim by: 1) Developing a performance-based approach for the design of fuse-segmented buildings; 2) Designing, manufacturing and testing fuses for segmenting buildings; and 3) Implementing fuses in segmented realistic building prototypes and testing and validating the new fuse-based approach in these structures.

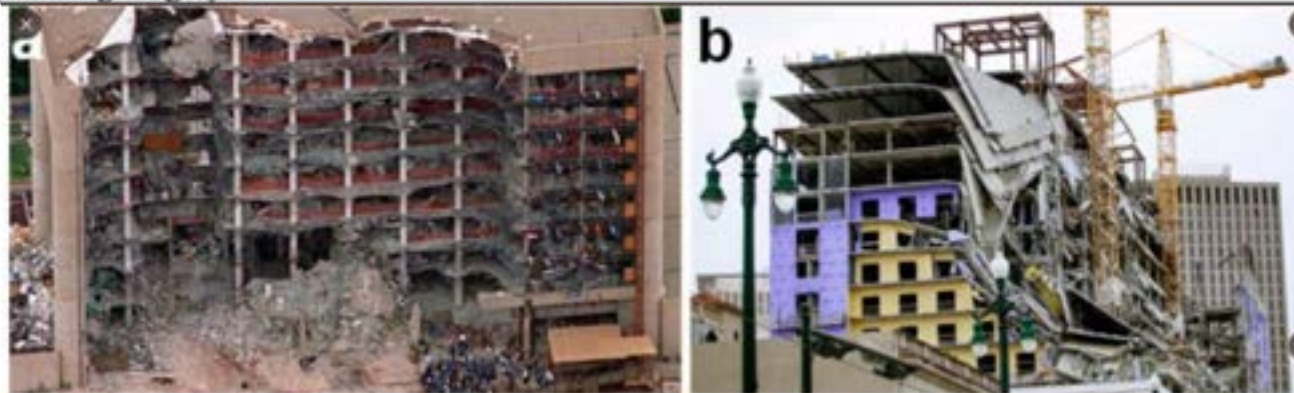
Endure will open up a new research area and design approach, and also deliver novel construction procedures. The project will lead to safer buildings, especially in the case of extreme events with severe consequences for building integrity.

The context of the proposal
(‘what’ and ‘why’)

The aim of the proposal

How we will achieve the aim

The expected outcomes and scientific impact



Part B1a (Extended Synopsis) 5 pages

Applicant's last name	Part B1	ACRONYM
Section a: Extended Synopsis of the scientific proposal (max. 5 pages, references do not count towards the page limit)		
<i>[The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the ground-breaking nature of the research project, which will allow evaluation panels to assess, in Step 1 of the evaluation, the feasibility of the outlined scientific approach. Describe the proposed work in the context of the state of the art of the field. It is important that the extended synopsis contains minimum information relevant to the evaluation criteria, since the Step 1 panel will have access only to part B1. References to literature should also be included. Please use a reference style that is commonly used in your discipline such as American Chemical Society (ACS) style, American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. and that allows the evaluators to easily retrieve each reference.]</i> <i>Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margin sizes (2.0 cm side and 1.5 cm top and bottom), single line spacing.</i>		

2

Fuente: GfA COG2025 p.21

Section a: Extended Synopsis of the scientific proposal (max. 5 pages) should be a concise presentation of the scientific proposal, with particular attention to **the ground-breaking nature** of the research project and the **feasibility of the outlined scientific approach**. It should contain **all essential information** including the **feasibility** of the scientific proposal since the panel will only evaluate Part B1 at Step 1. References should be included (they do not count towards the page limits).

Part B2 (Scientific Proposal) 14 pages

Applicant's last name: _____ Part B2 ACRONYM: _____

ERC Consolidator Grant 2024
Part B2¹
(not evaluated in Step 1)

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards the page limits.

Text highlighted in grey should be deleted.

Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.8 cm side and 1.5 cm top and bottom), single line spacing. Do NOT split the sections, references and/or the appendix (Funding ID) and upload them as separate documents.

Section a. State-of-the-art and objectives:

Section b. Methodology

Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are part of the online submission form (Part A: Section 3 - Budget) which will be examined and provided to the peer reviewers.

¹ Instructions for completing Part B2 can be found in the "Information for Applicants to the Starting and Consolidator Grant 2024 Call".

1

Applicant's last name: _____ Part B2 ACRONYM: _____

Appendix: All current grants and on-going / submitted grant applications of the PI (Funding ID)
Mandatory information (does not count towards page limits)

Current research grants (Please indicate "No funding" when applicable):

Project Title	Funding source	Amount (Euro)	Period	Role of the PI	Relation to current ERC proposal ²

On-going / submitted grant applications (Please indicate "None" when applicable):

Project Title	Funding source	Amount (Euro)	Period	Role of the PI	Relation to current ERC proposal ²

² Describe clearly any scientific overlap between your ERC application and the current research grant or on-going grant application.

2

Part B2 (Scientific Proposal) 14 pages

Applicant's last name

Part B2

ACRONYM

ERC Consolidator Grant 2024

Part B2¹

(not evaluated in Step 1)

Part B2

Section a. State-of-the-art and objectives

Section b. Methodology

Sections (a) and (b) of Part B2 should not exceed 14 pages.

References do not count towards the page limits.

Section b. Methodology

Do NOT split the sections, references and/or the appendix (Funding ID) and upload them as separate documents.

Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are part of the online submission form (Part A, Section 3 - Budget) which will be extracted and provided to the peer reviewers.

¹ Instructions for completing Part B2 can be found in the "Information for Applicants to the Starting and Consolidator Grant 2024 Call".

1

Applicant's last name

Part B2

ACRONYM

Appendix: All current grants and on-going / submitted grant applications of the PI (Funding ID)

Mandatory information (does not count towards page limits)

Current research grants (Please indicate "No funding" when applicable):

Project Title	Funding source	Amount (Euro)	Period	Role of the PI	Relation to current ERC proposal ²

On-going / submitted grant applications (Please indicate "None" when applicable):

Project Title	Funding source	Amount (Euro)	Period	Role of the PI	Relation to current ERC proposal ²

² Describe clearly any scientific overlap between your ERC application and the current research grant or on-going grant application.

2

Part B2 (Scientific Proposal) 14 pages

Applicant's last name: _____ Part B2 ACRONYM: _____

ERC Consolidator Grant 2024
Part B2¹
(not evaluated in Step 1)

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards the page limits.

Text highlighted in grey should be deleted.

Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.8 cm side and 1.5 cm top and bottom), single line spacing. **Do NOT split the sections, references and/or the appendix (Funding ID) and upload them as separate documents.**

Section a. State-of-the-art and objectives:

Section b. Methodology

Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are part of the online submission form (Part A: Section 3 - Budget) which will be executed and provided to the peer reviewers.

¹ Instructions for completing Part B2 can be found in the "Information for Applicants to the Starting and Consolidator Grant 2024 Call".

1

GfA COG2024 p.22

Section a: State-of-the-art and objectives. Specify the proposal objectives in the context of the state of the art in the research field. It should be clear **how and why** the proposed work is important for the field, and what **impact** it will have if successful, such as how it may open up new horizons or opportunities for science, technology or scholarship. Specify any particularly challenging or **unconventional aspects** of the proposal, including multi- or inter-disciplinary aspects.

Section b: Methodology. Describe the proposed methodology in detail including any key intermediate goals. Explain and justify the methodology in relation to the state of the art. Highlight any intermediate stages where results may require **adjustments** to the project planning.

In case you ask that team members are engaged by another host institution, their participation has to be fully justified by the scientific added value they bring to the project.

ERC *wording* in the evaluation criteria:
what exactly do they mean

¿Cuál es la Gran Pregunta de Investigación?

¿Qué es lo que tenemos que entender?

¿Qué es lo que debemos saber sobre (X fenómeno) para poder empezar a hacer algo que impacte en Y (campo científico, industria, sociedad,...)?

¿Cómo es la naturaleza de este reto que quieres acometer?

¿Es un reto teórico, conceptual, aplicado?

¿Es un reto común en tu campo de investigación?

por ej. curar el cáncer...

En este caso el proyecto necesitará de una idea y concepto de proyecto radicalmente novedosa

...important challenges

(Part B1 & Part B2)

¿Cuál es la Gran Pregunta de Investigación?



Gran Respuesta de Investigación

Breakthrough

¿Cómo vamos a dirigirnos a los challenges y cómo vamos a combinar los resultados para que éstos constituyan una simetría de lo que es el challenge?

...important challenges

(Part B1 & Part B2)

¿Cuál es la Gran Pregunta de Investigación?



...important challenges

(Part B1 & Part B2)

¿Cuál es la Gran Pregunta de Investigación?

*“La **turbulencia** ha ocupado siempre una posición a caballo entre la investigación científica y la ingeniería. Como parte de la primera, se la considera a menudo **uno de los grandes problemas no resueltos de la mecánica clásica**, mientras que dentro de la segunda es **un factor determinante en problemas tan variados** como la resistencia y propulsión de los vehículos, la pérdida de carga en tuberías y la mezcla y transporte de materiales en la industria química. No puede olvidarse tampoco que tanto los flujos atmosféricos como los oceánicos son generalmente turbulentos.”*

https://torroja.dmt.upm.es/pubs/2011/ingresoRAC_jimenez.pdf

¿Cuál es la Gran Pregunta de Investigación?

Turbulence is a fundamental unsolved problem, at whose core are the multiscale processes that transfer, for example, energy across the inertial range of scales, or momentum across wall-bounded shear flows.

Turbulence is also key to applications, from industrial design and energy generation to climate dynamics, where the worst uncertainties are often due to its modelling....

The premise of this proposal is that those **new capabilities should allow us to elucidate, once and for all, the physics underlying the multiscale transfer processes in turbulence in the next five years**, especially in shear flows near walls. That will allow the formulation of more realistic engineering models, but the immediate goal of the proposal is to answer the fundamental questions that have resisted two centuries of attack by physicists and engineers [...]

Neither large-scale computing nor data mining are trivial activities, but **our group has specialised in both during the past 20 years, particularly for the study of turbulence**.

Multiscale dynamics of turbulent flows

MULTIFLOW ERC-2010-AdG PE8

...ambitious objectives beyond SoA (Part B1 & Part B2)

¿Cómo presentar los objetivos?

separadamente

en combinación con preguntas de investigación

en combinación con conjeturas/hipótesis...

Objetivos más allá del Estado del Arte

- Demostrar por qué los objetivos del proyecto son ambiciosos con respecto a lo que se ha hecho hasta ahora (POR TI/por otros)
- El SoA ayuda a clarificar conceptos y términos usados durante la escritura del proyecto
- Ayuda a entender cuáles son los gaps del campo y, por tanto, ayuda a entender la necesidad de responder AHORA y POR TI a esa Gran Pregunta de Investigación
- Demuestra el conocimiento del IP en los problemas metodológicos, conceptuales, teóricos de campo
- Demuestra el sentido crítico del IP con sus aportes previos al SoA

✓ **Preliminary evidence, preliminary data**

(feasiblility) evidencias o datos preliminares

Publicados o no publicados

... pero **siempre del Investigador Principal**

Especial atención a cuestiones que susciten controversia en la comunidad científica

- Preliminary data
- Validation of hyphotesis via recent publication
- Access to data set



Las simulaciones sugieren que los humanos pudieron cruzar el estrecho de Bab-al Mandab a nado o arrastrados por la corriente

Evidencias

- Paleogeografía
- Destrezas físicas
- ¿Registro fósil?

Fuente: <https://www.agenciasinc.es/Noticias/Los-humanos-modernos-no-entraron-en-Europa-cruzando-el-mar-Mediterraneo>

(Part B1 & Part B2)

The State of the Art

- ✓ No piden una revisión del SoA del campo
- ✓ No es un artículo científico
- ✓ Otorgan el dinero por los cambios (el efecto) que se es capaz de producir en el campo científico, no por escribir un buen SoA.

Ejercicio de autoevaluación

ROJO = SoA

VERDE = proyecto

Agrupando
>>



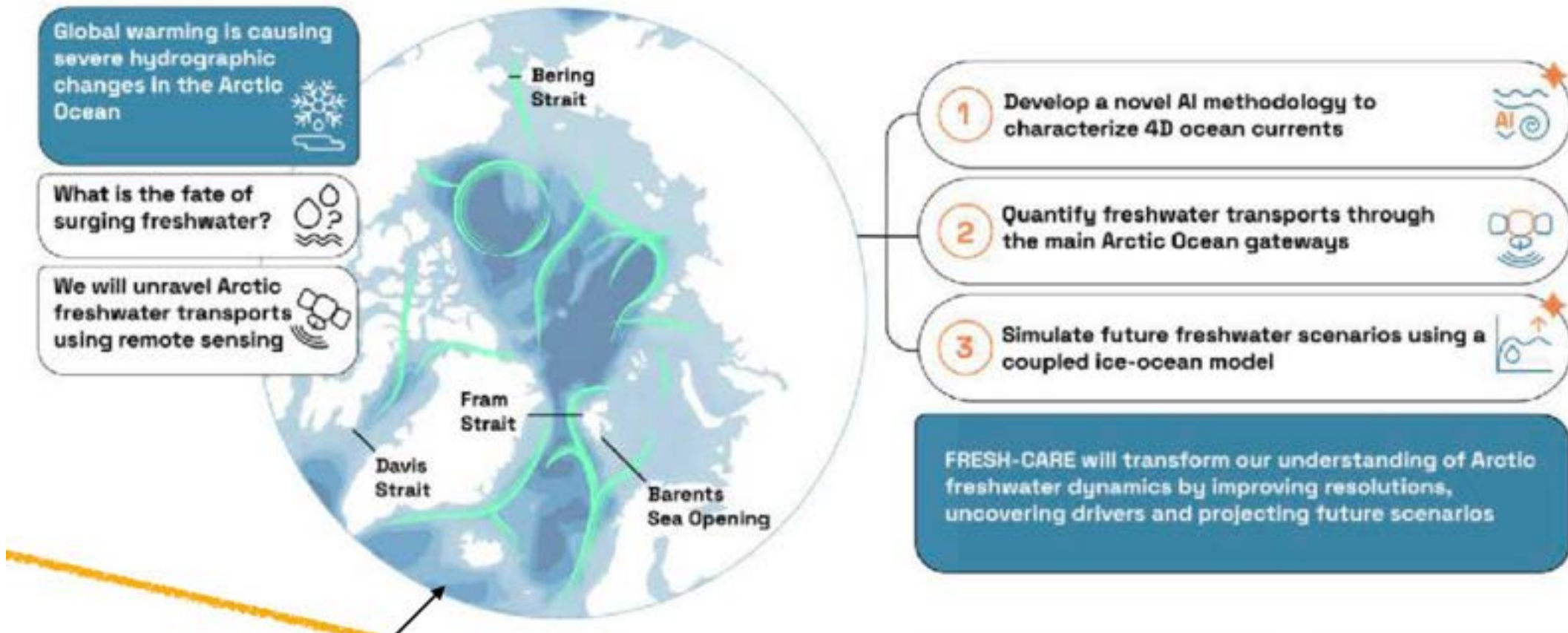
References

criterio gráfico para destacar
aportaciones al SoA del PI



...ambitious objectives beyond SoA (Part B1 & Part B2)

Operacionalizar la Gran Pregunta de Investigación



Marta Umbert. FRESH-CARE: Unravelling FRESHwater and ocean Currents changes in the Arctic using REmote sensing. Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC). PE10 Earth System Science. ERC-StG-2024

<https://www.horizonteeuropa.es/3-webinars-para-ayudar-preparar-erc-starting-grant-2025>

...Novel concepts and approaches or developments between or across disciplines

(Part B1 & Part B2)

El concepto y enfoque sería la idea subyacente (considerada en su conjunto) de la propuesta

Una idea no convencional

- nuevos conceptos que no existían antes
- uso de conceptos existentes a un contexto o campo diferente
- nuevas combinaciones de principios científicos relacionados
- nuevas combinaciones de principios científicos no relacionados hasta ahora

Una nueva idea necesitará un nuevo enfoque ---- *novel theoretical framework (SH)*

...Novel concepts and approaches or developments between or across disciplines

(Part B1 & Part B2)

Air transport has by and large been studied as a transportation process, in which different elements, e.g. aircraft or passengers, move within the system. While intuitive, this approach entails several drawbacks [...]. The lack of a better approach is in part responsible for our inability to fully understand delay propagation, one of the most important phenomena in air transport. ARCTIC proposes an ambitious program to change the conceptual framework used to analyse air transport, inspired by the way the brain is studied in neuroscience. It is based on understanding air transport as an information processing system, in which the movement of aircraft is merely a vehicle for information transfer. [...] The approach also entails important challenges, [...] point towards a radically new way of thinking about the dynamics of air transport. [...]

} **Novel
concept**

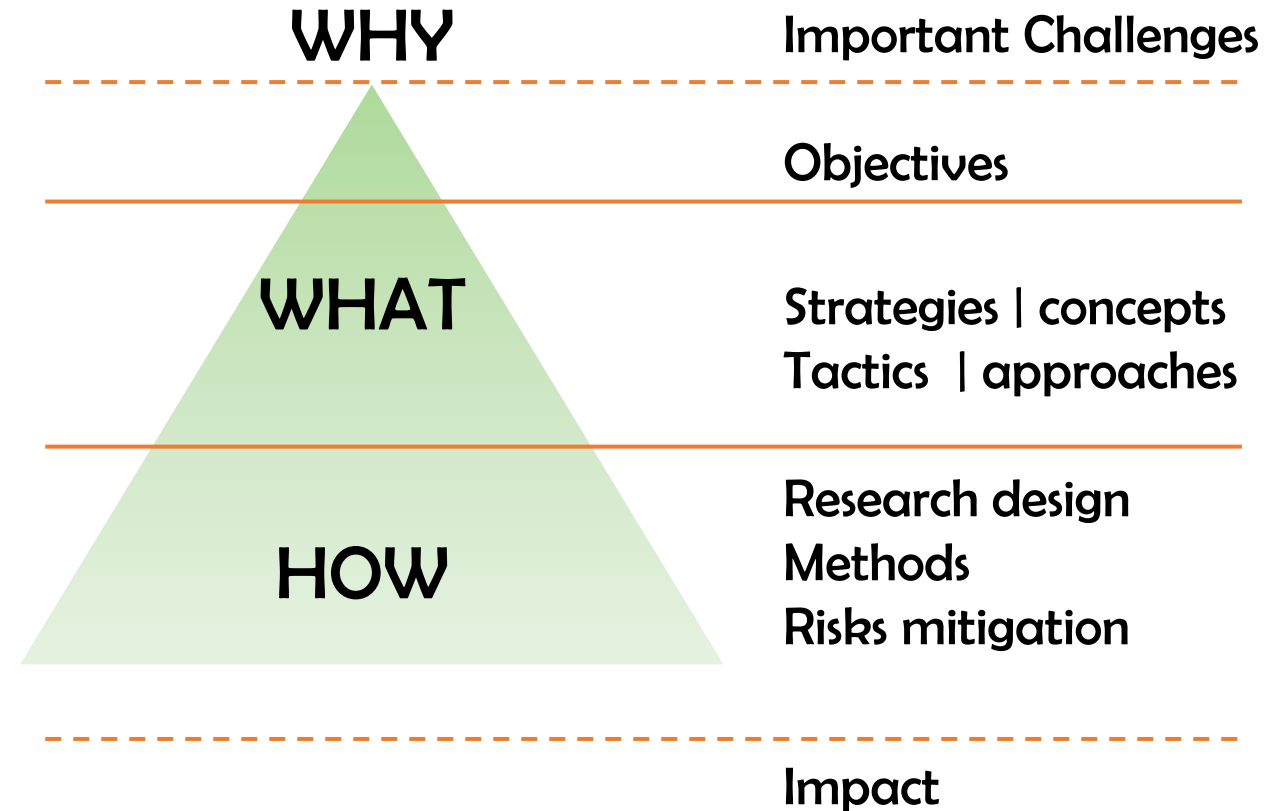
Air Transport as Information and Computation ARCTIC ERC-2019-STG SH2

feasible scientific approach vs. methodology

ERC 2025 – Evaluation criteria used to assess Part B2

Scientific Approach

- is the outlined scientific approach feasible ... ground-breaking nature and ambition of the proposed research? (B1)
- are the proposed research methodology and working arrangements appropriate to achieve the goals of the project? (B2)
- are the proposed timescales, resources and PI commitment adequate and justified? (B2)



feasible scientific approach vs. methodology

Part B1

- feasible scientific approach 3 pages/5

- Concise and clear (5 pages)
- All the essential information
- General overview of the project
- Emphasis on ground-breaking nature
- **Feasibility** (≠ detailed methodology)
- Support feasibility with preliminary evidences
- Know your competitors and the state-of-art
- Why is your idea and scientific approach outstanding? Potential High gain
- **Risk assessment**
- Explain collaborations
- Research design

Part B2

- research methodology and working arrangements 9 pages/14
- timescales, resources and PI commitment

- Do not repeat extensively from part B1. Do not copy-paste
- Provide detail –thoroughly- on **methodology**, work plan, selection of **case studies**,...
- Explain any **risk mitigation strategy**
- Explain your timeline, link them to the research objectives or tasks.
- Explain scientific and human resources needed (not in €)
- Explain need of additional team members (if applicable)

Part B2

9 pages/14

- research methodology and working arrangements

- Strategy to achieve the workplan. **HOW?**
- **WPs/objectives/aims > tasks > outcomes**
- Methods, data, tools per WP
- NO: one single way/ waterfall design
- **Complexity**, loops, iterative design
- **Key Intermediate Goals**. Time-based
- New methods, techniques, tools, data.
- SoA methodology used for the first time in another field

- timescales, resources and PI commitment

- Timeline and human resources per objective and or task
- Expertise needed per objective. Team composition during the 5years.
- Your commitment to the project (leader of your research team)

Risk assessment and potential impact (Part B1 & B2)

Terminar la narrativa haciendo un repaso conciso a este criterio de evaluación: análisis de impacto en un apartado separado al final de la propuesta a modo de síntesis

The **expected impacts** must be listed in the text.

High-gain in your field and in adjacent fields

Suggest the direction your field of research should follow

Risk mitigation strategy (conceptual risks vs. operational risks)

Preliminary evidence

Does this risk justify the potential gain?

“Risk assessment is more than a proof of maturity. It shows your way of thinking and that your choices were not picked randomly, but that you thought of all options available” Odeta Limaj Officer ERCEA

The ERC funds frontier research (basic and applied).

For applied projects, discuss what are the contributions to basic science

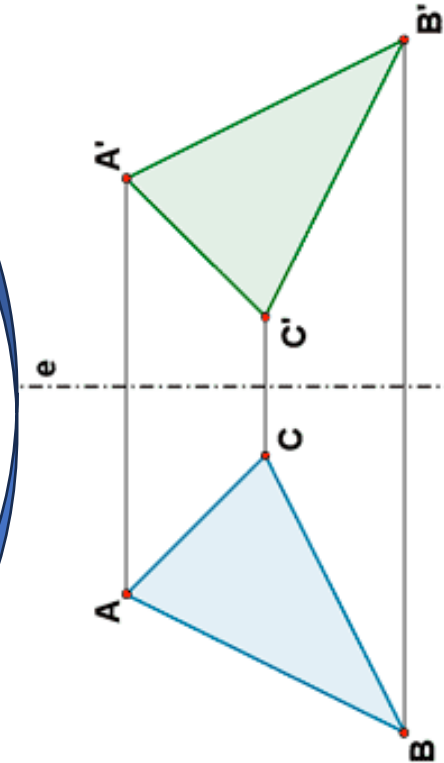
Contributions vs. Publications

Part B2

important challenges
ambitious objectives

approach
methodology
working arrangements
timescales, resources

impact



Risk assessment (Part B1 & B2)

¿Cómo presentarlo en la propuesta? (aquí un ejemplo: ALiEN ERC-2020-AdG)

B1

Risk table (B2 presents a more detailed risk table)

Risk	Mitigation actions
Problems generalizing to new referents	Work with (still useful) protocols limited to fixed but large class set. Explore special training techniques to encourage 0-shot generalization.
Problems generalizing to new agents	Explore simplified setups, e.g., limit architecture variety. Focus on emerged-language supervision.
Language-layer tuning of pre-trained DNNs does not suffice	Explore full-architecture re-training (emergent language should still have beneficial properties) and simplify. For example, limit to specific architectures or to visual models only.
DNNs do not learn to play full Grocery Challenge	Identify problematic aspects and simplify (e.g., simplify value and price structure).

Fuente: <https://marcobaroni.org/alien/>

B2

b.3 Risk table

Risk	Mitigation actions
WP1, WP2, WP3: Dependencies?	Although the experiments in the three simulation WPs are related and some techniques should ideally be prototyped in WP1 and then applied to WP2 and WP3, there is no crucial dependency such that delays in a WP would prevent concurrent progress in the other WPs.
WP1: Problems generalizing to new referents	i) Work with (still useful) protocols limited to a large but fixed number of object classes. ii) Special training methods to encourage 0-shot generalization: in particular, add many training examples where target and distractors are same-class or extremely similar, to spur emergence of a granular attribute-level language. iii) Study problem at the class level: are there specific classes where fast generalization works better? Does this depend on similarity to training classes? Can we capitalize on this observation, if confirmed?
WP1, WP2, WP3: Problems generalizing to new agents	i) Explore simplified setups, e.g., limit DNN architecture variety. ii) Focus on supervised imitation learning. iii) Study if community-evolved languages have other advantages, even if they are not as fast to transmit as hypothesized.
WP1, WP2: Supervision is not beneficial.	For the time being, we won't get a single "universal" language, but methods to evolve useful languages will still be delivered. Extensive study of why supervision does not help: Is it because language drift undoes its benefits? Does supervision hamper generalization?
WP2: Language layer tuning does not	Consider both the full-architecture re-training approach

potential impact (Part B1 & B2)

¿Cómo presentarlo en la propuesta? *(aquí un ejemplo: ALiEN ERC-2020-AdG)*

a.3 Progress beyond the state of the art

ALiEN proposes a **paradigm shift** in managing complex deep learning architectures by evolving **general-purpose interface protocols** that are robust to variations in input information and in the specifics of the neural network components being connected.

To achieve this novel goal, ALiEN relies on the know-how we recently accumulated in the study of emergent DNN language (and, more broadly, language evolution simulations and multi-agent communication). However, it pushes for radical advancement in the area, tackling the issues of **large-scale reference in a perceptually rich world** and **easy transmission across DNNs**. With respect to both goals, *the focus is on fast generalization to unseen scenarios, supporting the robustness required by real world*

a.4 Impact

ALiEN will impact all the research communities mentioned above. It should trigger a shift in the development of complex **deep learning** architectures **from ad-hoc interfaces to flexible connectivity** and, ultimately, **genuinely autonomous AI agents** able to interact with each other and with us. At the same time, the new emphasis on persistent, shared representations provides new perspectives and defines new problems in **representation learning** and **interpretability studies**. ALiEN gives **cognitive science**, **language evolution research** and **linguistics** a new body of evidence on **the limits of communication**, and new tools to analyze it. These tools might also prove useful to characterize other types of communication systems, such as animal signaling, or even natural languages themselves.

From an applied perspective, I foresee **coordination between DNN-controlled devices** to become one of the major challenges in the industrial deployment of AI in the coming years. Beyond the **multiagent information retrieval** and **home automation** scenarios simulated in ALiEN, the coordination problem is pervasive. Indeed, a communication-based approach to coordination has recently been proposed for **self-driving cars** (e.g., [97]) and **robot arms** ([98]). As other classic domains in computer science and information technologies scale up to large communities of actors including machine-learning components (e.g., in **communication networks** or **finance**: [99, 100]), the problem of a scalable and flexible coordination protocol will become more and more pressing. **ALiEN puts Europe at the forefront of this important next frontier in AI**. Fittingly, it does so by **building on a long European tradition of studies in language evolution**, communication games and cross-species linguistics.

Fuente: <https://marcobaroni.org/alien/>

Algunos ejemplos

Cómo estructurar la plantilla

Umberto Lombardo. DEMODRIVERS: Drivers of Demographic Dynamics. Universidad Autonoma de Barcelona. SH6. ERC-COG-2021

B1

- A.1 Challenges
- A.2 Project aims and justification
- A.3 Scientific hypotheses

1)

The early sites discovered in the Bolivian Amazon already show the existence of a mixed economy and incipient plant domestication by ca. 10,300 cal yrs BP, suggesting that people may have already had a mixed economy when arriving in the Bolivian Amazon (Lombardo et al., 2020). Hypothesis: humans arrived in the Bolivian Amazon earlier than is currently believed, cultivation and plant domestication were a successive, in-situ development and that the earliest sites in the Llanos de Moxos have not been discovered as yet.

2)[...]

3)[...]

4)[...]

A.4 Methodology

- Theme 1, testing hypotheses 1 and 2
The reconstruction of paleo-demography in the Bolivian Amazon.
(WP1, WP2, WP3, and WP4)
- Theme 2, testing hypotheses 2 and 3
Revealing the timing of cultural changes and technological innovations.
(WP5, WP6, WP7, and WP8)
- Theme 3, testing hypotheses 2 and 4
Environmental change in the LM during the Holocene.
(WP9 and WP10)

- A.5 The innovative and ground breaking nature of the project and its legacy
- A.6 Risk, mitigation and feasibility
- A.7 Team members

<https://www.horizonteeuropa.es/webinars-erc-consolidator-grant-2023>

B2

Section a. State-of-the-art and objectives

- A.1 Revealing patterns and drivers of human demographic dynamics.
- A.2 Why do the Llanos de Moxos (LM) provide a perfect case study for understanding what drove human paleodemography and why now?
- A.3 Scientific hypotheses

1)[...]

2)[...]

3)[...]

4)[...]

A.4 Aims

- Theme 1, Demographic trajectories
- Theme 2, Cultural changes and innovation
- Theme 3, Changing climates and environments.

A.5 The ground breaking nature of the research and its scientific impact

Section b. Methodology

B.1 Themes and methods

Theme 1

Background

WP1

-

WP4

Theme 2

-

Synthesis

B.2 Risk assessment and mitigation

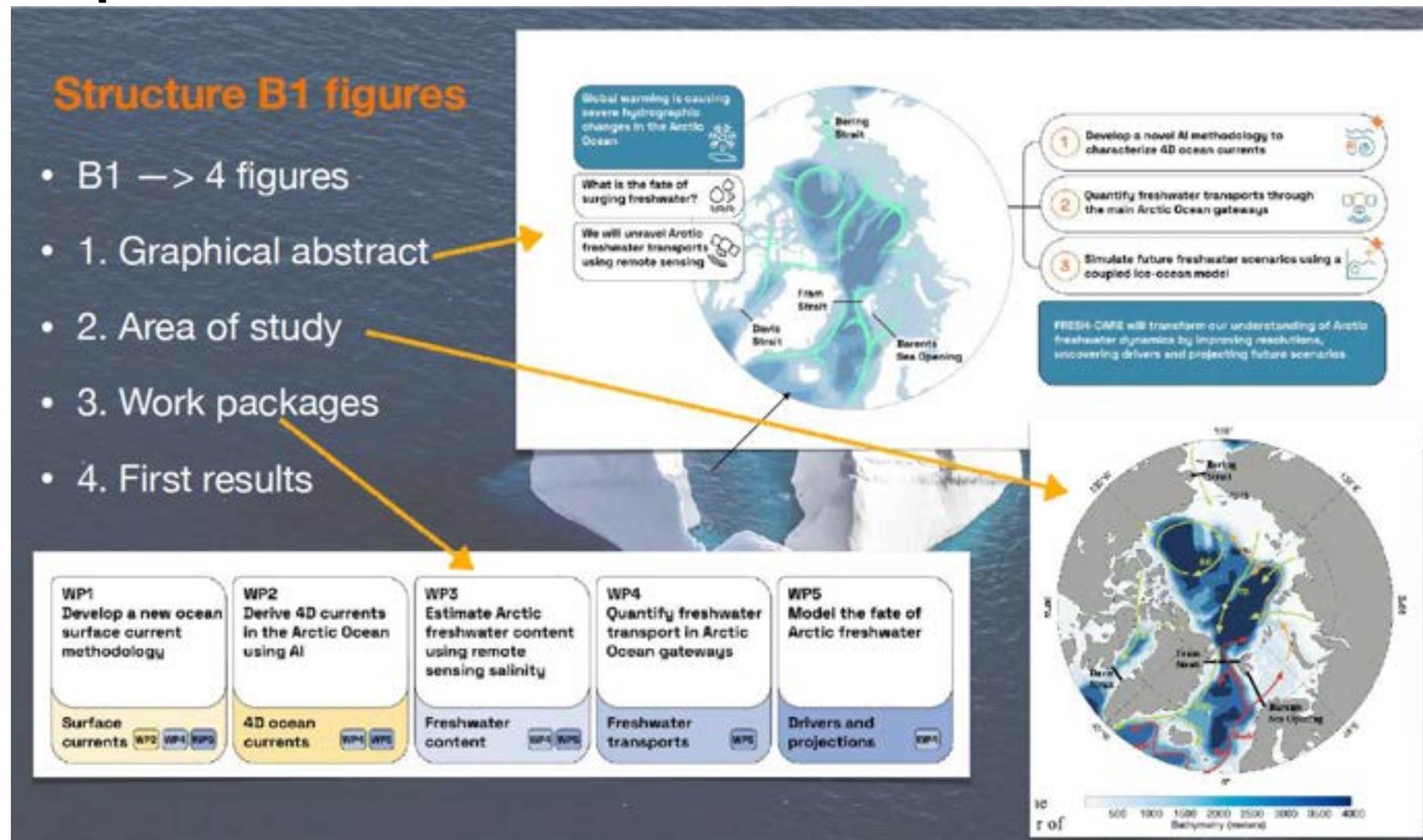
B.3 Project Gantt chart

B.4 Project feasibility

Cómo estructurar la plantilla

Structure part B1

- Proposal summary (1/2)
- Graphical abstract (1/2)
- Scientific context (1/2)
- Project vision (1/4)
- Scientific objectives (1/4)
- State of the art (1 + 1/2)
- **Methodology (2)**
- Feasibility (1/3)
- Risk analysis (1/3)



Marta Umbert. FRESH-CARE: Unravelling FRESHwater and ocean Currents changes in the Arctic using REmote sensing. Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC). PE10 Earth System Science. ERC-StG-2024

<https://www.horizonteeuropa.es/3-webinars-para-ayudar-preparar-erc-starting-grant-2025>

Especificidad en la B1

The observational work (work package 1, **WP1**): will consist of three different tasks: 1) building a **publicly available database from newly acquired data** and literature compilation to investigate the relationship between elementomes and functional traits using **macroalgae, lichens, plants and invertebrates** (O1, H1), 2)

1.1: Postdoc 1  ElemFunTrait Database	PhD Student Experimental microcosms Individual-scale mechanisms	Postdoc 2, PI  Theoretical modelling
1.2: PI  Forest inventories: Elementomes ~ growth	2.1: Species manipulation 	Integral Projection Models & own theoretical models
1.3: STOIKOS team  Large-scale survey of elementomes at FLUXNET & ICOS sites → ecosystem functioning	2.2: Nutrient manipulation 	Synergistic integration of STOIKOS results
	2.3: Stress induction 	Generalizable results and new ecological theory
WP1: Observational	WP2: Experimental	WP3: Theoretical

Fig. 4: Summary of STOIKOS work packages. Blue, yellow and red circles represent low, medium and high risk

a synthesis study using **forest inventory data** to study how community-weighted elementomes and elemental diversity affect forest growth (O2, H0 and H2) and, 3) a **European-scale survey of ecosystem elemental composition and diversity** of 30 sites with continuous high-frequency monitoring of C fluxes included in FLUXNET/ICOS networks (O2, H0 and H2).

The experimental work (**WP2**) will consist of three microcosm experiments using mosses specifically designed to achieve O1, O2 and O3 and test H1, H2 and H3. Experiment 1) will manipulate the number of species per

Marcos Fernández-Martínez. Universitat Autònoma de Barcelona (UAB), Spain
STOIKOS Elemental Ecology: towards an element-based functional ecology
ERC Starting Grant 2022

Especificidad en la B2

Marcos Fernández-Martínez. Universitat Autònoma de Barcelona (UAB), Spain
STOIKOS Elemental Ecology: towards an element-based functional ecology
ERC Starting Grant 2022

WP1: Observational work

ElemFunTrait Database (WP1.1): STOIKOS will sample a wide range of organisms to build the ElemFunTrait database, a database containing functional traits, elementomes and functioning of individual organisms, including plants, protists and animals. We will carry out a field campaign to measure functional traits and elementomes of 20 tree species, 20 herbs and grasses, 20 bryophytes (10 mosses and 10 liverworts), 20 foliose lichens, 20 sea macroalgae, and 20 arthropods such as spiders, caterpillar butterflies and isopods (120 species in total, three samples per species). For two of each group, we will also survey three species more intensively to investigate the drivers of their elementome and functional trait plasticity, analysing a total of 15 samples for those selected species. The aim of the dataset will be to test whether larger elementome distances amongst species are linked to larger distances in their functional traits. Additionally, it will elucidate the relationship between the concentration of determined elements and the presence of determined functional traits to achieve **O1** and test **H1**.

Field campaign and measurement of traits and elementomes: Field campaigns will take place in Catalonia, which, thanks to its orography, has a large climatic and altitudinal gradient, containing ecosystems that can be found from the Mediterranean region to the tundra. That will allow the project to sample very different species. In the field, we will measure photosynthesis and respiration at standard conditions (30 °C, 1000 $\mu\text{mol photons s}^{-1} \text{ m}^{-2}$) with a CIRAS-3 portable photosynthesis system (PP systems) and additional instrumentation (different leaf cuvettes and chambers, including an insect respiration chamber). Three samples per species will be taken to the lab for further analysing their functional traits, depending on their taxonomic identity (e.g., leaf mass area for plants, density for mosses, liverworts, lichens and macroalgae, trophic level and morphological attributes for arthropods, etc...). All samples will be analysed for C and N concentration and their isotopes (^{13}C and ^{15}N) and P, K, Fe, Ca, Mg, Na, S, Cu, Zn, Mo, Co, and Hg at the laboratories of the University of Barcelona (a total of 360 samples + 105 for plasticity measurements).

Outputs: Measurements of functional traits and elementomes beyond C, N and P is a very important innovation in the field that will raise the interest of a wide community of ecologists. These measurements will be publicly available as soon as we release the first publication of the ElemFunTrait database.

Especificidad en los compromisos/resultados

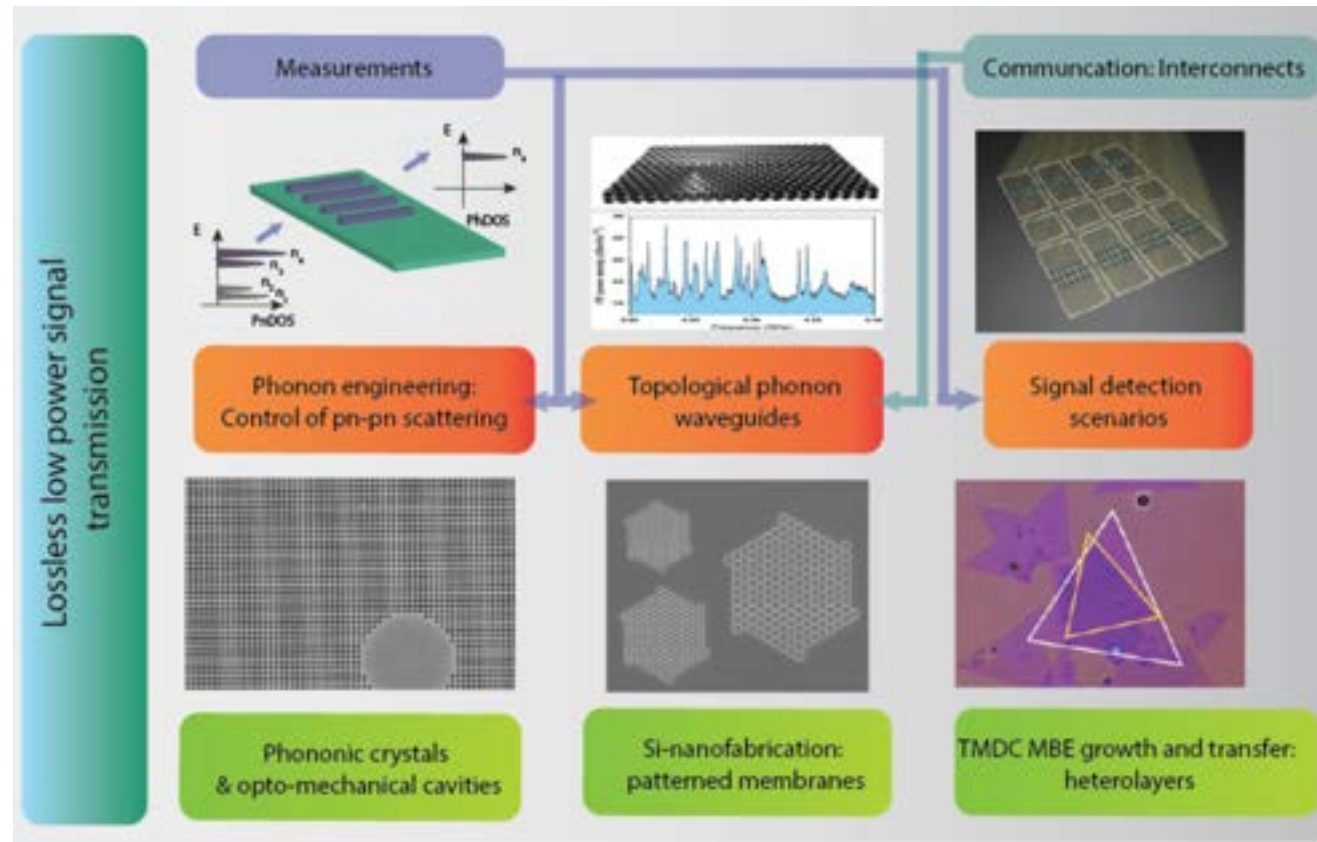
Photovoltaics is called to be a main player in the global transformation of the energy sector the world is facing to fight climate change. Multijunction solar cells, based on classical III-V compound semiconductors, are the most advanced photovoltaic cells holding a record photoconversion efficiency of 38.8%. However, the high cost associated to their manufacturing process has typically relegated this technology to non-terrestrial applications in favour of Si cells. On the contrary, single-junction Si cells are cost-effective, but there is almost no room left to further improve their efficiency, which already approaches its theoretical limit, 29.4%. MIRACLE is created to make true a dream of decades: combining the unbeatable efficiency of multijunction solar cells with the cost-effectiveness of Si technology. The ultimate objective of MIRACLE is the demonstration of both double- and triple-junction solar cells based on III-V materials pseudomorphically grown on top of a Si cell, configurations that promise photoconversion efficiencies of up to 43 and 47%, respectively. Quaternary dilute-nitride alloys are the only III-V compounds that can be grown lattice-matched to Si with ideal band gaps for the fabrication of multijunction solar cells in combination with a bottom Si cell. Nevertheless, despite of their well-known potential, reports on dilute-nitride solar cells are rather scarce yet due to their challenging fabrication with the high structural perfection demanded in photovoltaics. The revolutionary idea of MIRACLE is to make use of quantum engineering to fabricate dilute-nitride compounds lattice matched to Si not as thick layers, as attempted so far, but as short-period superlattices by periodically alternating simpler compounds on atomic-layer scale. Hence, MIRACLE does not only aim to push the efficiency of cost-effective Si-based tandem solar cells to their theoretical limits, but also to unveil the physical properties of unexplored quantum heterostructures.

MIRACLE. Quantum-engineered lattice-matched III-V-on-Si multijunction solar cells
Sergio Fernández Garrido. Universidad Autónoma de Madrid

Incorporación de gráfica/diseño de la metodología investigación

Lossless Information for Emerging Information Technologies (L E I T)

Clivia M. Sotomayor Torres ERC-2019-Advanced Grant

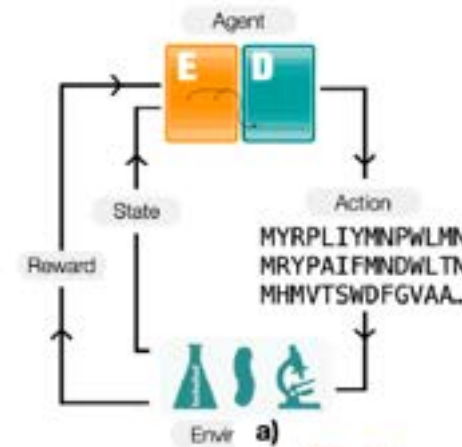
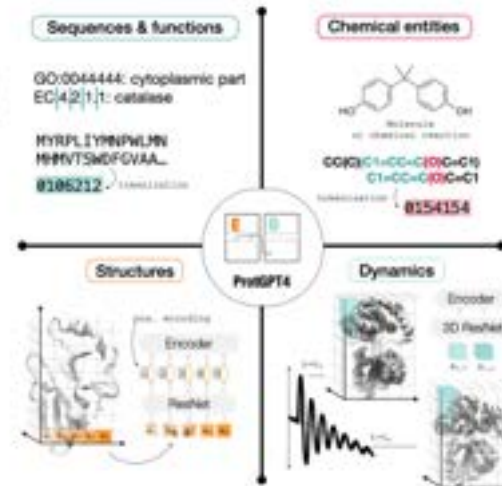
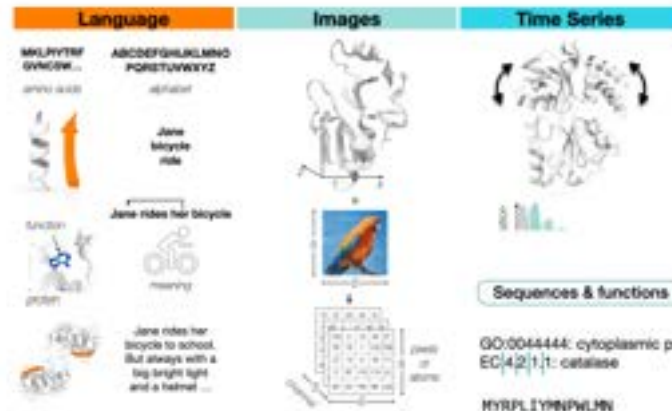


LEIT project description in one picture

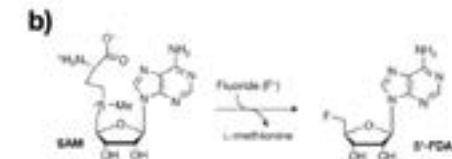
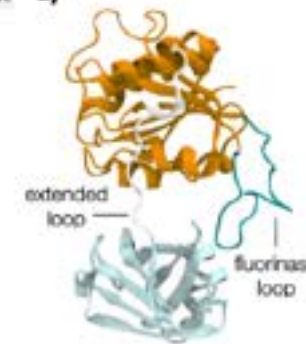
Fuente: Presentación Webinar AdG2020 - 29th May 2020

Gráficas en la metodología investigación

Tip 2: Make figures consistent among themselves (palette)



- Use a Palette
- Coloring for Colorblindness
- W&B printing
- PPTX for the interview



Organism	kM (μM)	Kcat (min ⁻¹)
<i>S. Cattleya</i>	29.2	0.083
<i>S. Sp MA37</i>	82.4	0.262
<i>N. Brasilensis</i>	27.8	0.122
<i>Actinoplanes</i>	45.8	0.204
<i>Methanococcus sp.</i>	6.99	0.41
<i>S. Xinghaiensis</i>	3.76	0.22
<i>S. sp. SAU15</i>	9.62	0.34

Noelia Ferruz. ATHENA: An intelligent agent for general-purpose protein engineering. (CSIC). LS9 Biotechnology and Biosystems Engineering. ERC-STG-2024

<https://www.horizonteeuropa.es/3-webinars-para-ayudar-preparar-erc-starting-grant-2025>

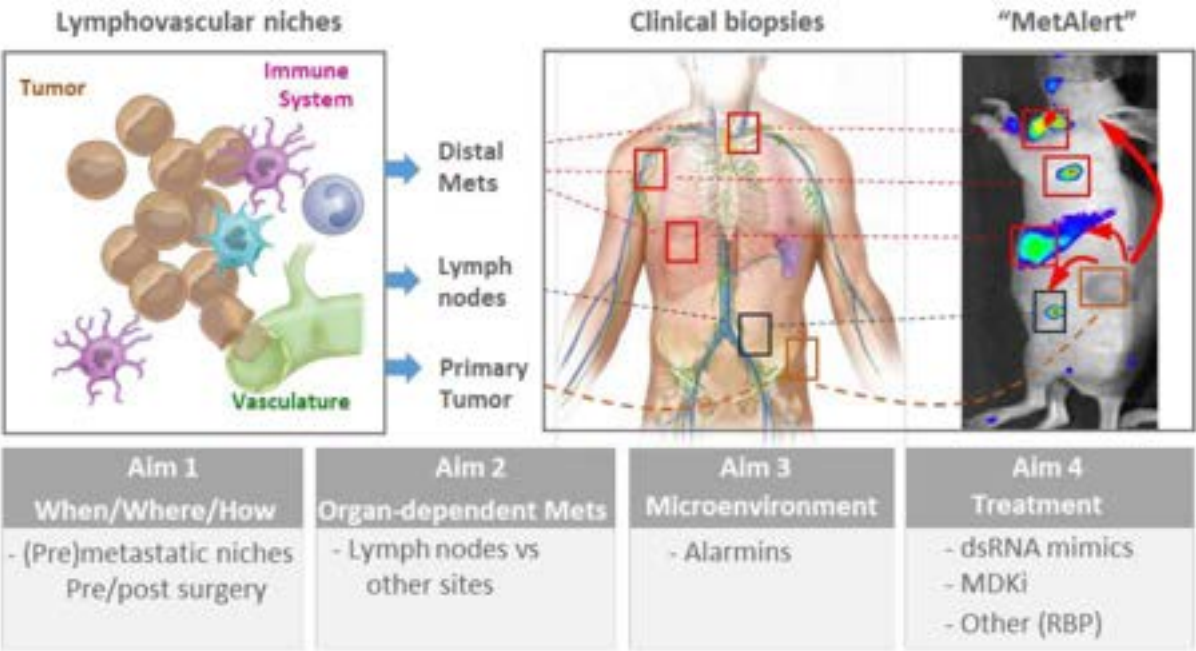
Gráfica/diseño de la metodología investigación

María S. Soengas (LS4) AdG 2019

METALERT-STOP

Imaging, characterizing and targeting
metastatic niches in melanoma

B1

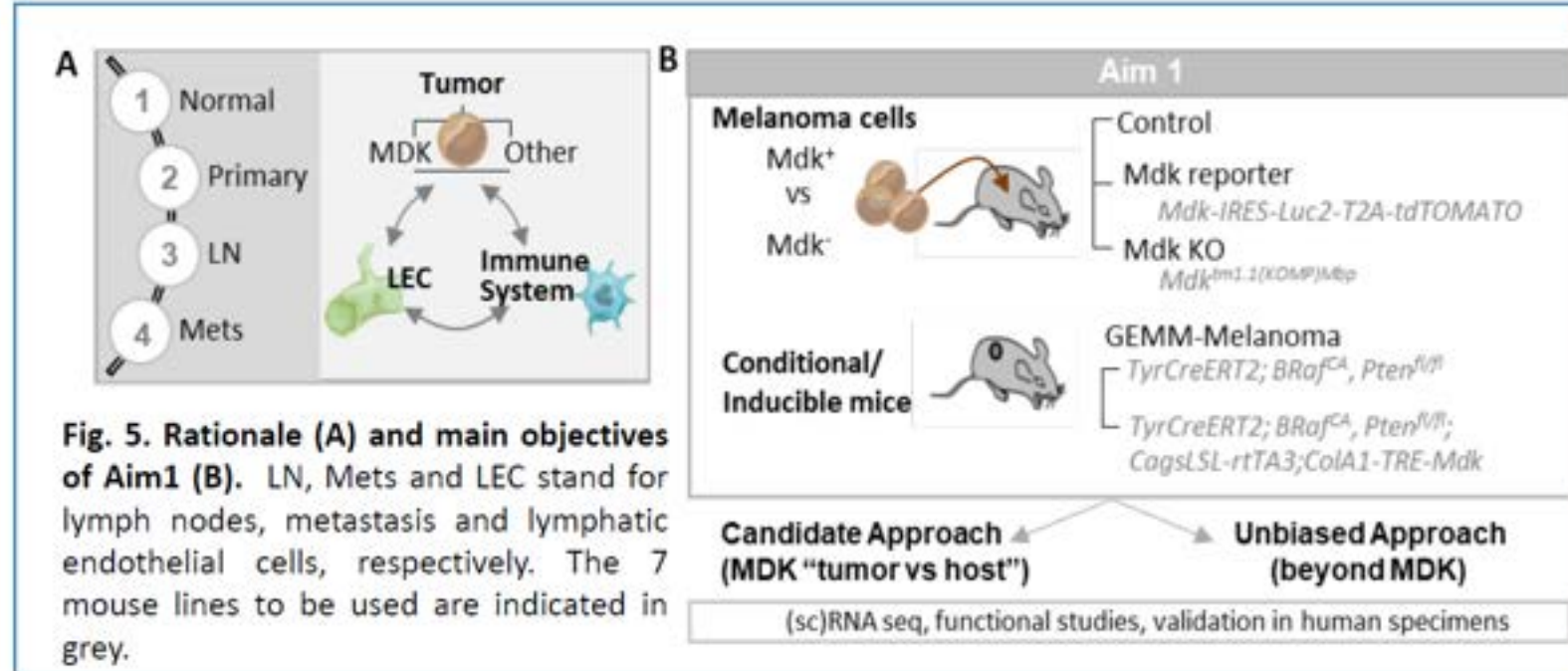


Fuente: <https://eshorizonte2020.es/ciencia-excelente/consejo-europeo-de-investigacion-erc/noticias/documentacion-jornada-informativa-nacional-european-research-council-convocatorias-2021>

Gráfica/diseño de la metodología investigación

María S. Soengas (LS4) AdG 2019
METALERT-STOP
Imaging, characterizing and targeting
metastatic niches in melanoma

B2



Fuente: <https://eshorizonte2020.es/ciencia-excelente/consejo-europeo-de-investigacion-erc/noticias/documentacion-jornada-informativa-nacional-european-research-council-convocatorias-2021>

Resources and timeline

Resources ≠ Budget description

MicroStars. Extreme time and angular resolution in the optical with Cherenkov telescopes
Tarek Hassan. CIEMAT

Personnel (ISCED lvl)		Skills				
Postdoc 1 Level 7-8 Mechanical Engineer		- Optomechanics and IACT hardware - Firmware and HF electronics - Optics and dichroics (OpticStudio)				
Postdoc 2 Level 7-8 Software Engineer		- HPC architectures - CUDA and possibly FPGA - Professional software developer				
Postdoc 3 Level 8 PhD in Astrophysics		- Software development - Data analysis - Fast optical astronomy				
Postdoc 4 Level 8 PhD in Astrophysics		- Data analysis - Instrument simulation/characterization - Interferometry (optical or radio)				
Project Administrator Level 6-7 Physicist		- Projects / Events organization - Administration experience - Communication and outreach				

Part B2

MicroStars

Personnel	Task	Y1	Y2	Y3	Y4	Y5
PI + PostDoc1	1.1					
PI + PostDoc1	1.2					
PA + PostDoc2	1.3					
PostDoc1 + PostDoc2	1.4					
PostDoc2	2.1					
PostDoc2 + PostDoc3	2.2					
PostDoc2 + PostDoc3 + PostDoc4	2.3					
PostDoc2 + PostDoc3 + PostDoc4	2.4					
PostDoc4	3.1					
PI + Postdoc3 + Postdoc4	3.2					
PI + PA + PostDoc4	3.3					
PA	4.1					
Postdoc3 + Postdoc4	4.2					
PA + Outreach teams	4.3					
PI + PA	WP5					

ERC Evaluation Summary Reports

Estructura del Evaluation Summary Report -ESR

Figure 1: Structure of the Evaluation Summary Report (ESR) showing four pages. The first page is the Cover sheet, the second is the Panel Comment, and the third and fourth pages are Individual reviews.

Page 1: Cover sheet

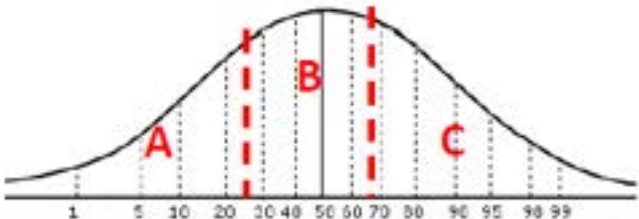
Page 2: Panel Comment

Page 3: Individual review (Reviewer 1)

Page 4: Individual review (Reviewer 2)

Cover sheet: basic info about the proposal (PI, Title, HI),

Final score + ranking range



Panel Comment

Individual reviews: different roles

- Outstanding (4 points)
- Excellent (3 points)
- Very good (2 points)
- Good (1 point)

Typical reasons for rejection

Principal Investigator

Unconvincing on:

- Track record
- Experience in leadership

Research proposal

Incremental research

Scope: Too narrow or too broad/
Unfocussed

Work plan not detailed
enough/unclear

Insufficient risk assessment

Interview not convincing

B1

INCREMENTAL RESEARCH: overlap between past experience and project proposal.

LACK OF SPECIFICITY:

Access to data, materials, corpus, etc...
Preliminary results

B2

Size of the sample; how the tests are designed, how the results will be analyzed

Objectives over ambitious vs. achievable proposal – timing the experiments or cases studies and timing the analysis phase and proposal phase.

The budget

The budget

3 - Budget

Beneficiary Short Name	PI	Senior Staff	Postdocs	Students	Other Personnel costs	A. Total personnel cost €	B. Subcontracting Cost € (No indirect costs)	C.1 Travel and subsistence	C.2 Equipment including major equipment	Consumables incl. fieldwork and animal costs	Publications (incl. Open Access fees) and dissemination	Other additional direct costs	C.3 Total other goods, works and services	Total Purchase cost €	D. Internally invoiced goods and services € (No indirect costs)	E. Indirect Cost €	Total Eligible Costs	Requested EU contribution €
Feyt	0	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0.00	0	0.00	0.00	0.00
Gym	0	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0.00	0	0.00	0.00	0.00
Total	0	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0.00	0	0.00	0.00	0.00

A. Total personnel costs

- PI + Team members >team composition over the 5 years

B. Subcontracting costs (no OH)

C. Total purchase costs

C.1 Travel and subsistence

C.2 Equipment including major equipment

>depreiation/capitalized costs

- Consumables including fieldwork and animal costs

- Publications (including Open Access fees and dissemination) > OA mandatory

- Other additional direct costs

C.3 Total other goods, works and services

- D. Internally invoiced goods and services (no OH)

- E. Indirect Costs > 25% Direct Costs flat rate

- TOTAL ELIGIBLE COSTS

- REQUESTED EU CONTRIBUTION

Host Institution rules apply!

Additional budget

- (a) 'start-up' costs for a PI moving from another country to the EU or an AC
- (b) the purchase of major equipment
- (c) access to large facilities
- (d) other major experimental and field work costs, excluding personnel costs,

The budget

1. State the amount of funding considered necessary to fulfil the research objectives. The project cost estimation should be as accurate as possible. The requested budget should be fully justified and in proportion to the actual needs. Describe all the cost categories considered necessary for the project. The evaluation panels assess the estimated costs carefully; **unjustified budgets will be reduced.**
2. Describe the **size and nature of the team**, indicating, where appropriate, the **key team members and their roles**. The participation of team members engaged by other host institutions should be justified and in relation to the additional financial cost this may impose. When estimating your personnel costs take into account the dedicated working time to run the project.
3. Explain and describe in detail any **additional funding requested** for the project (**the requested additional funding should be included in the budget table**). Please also indicate under which of the above-mentioned four cost categories the request falls.
4. Include a **short technical description** of any requested **equipment**, why you need it and how much you plan to use it for the project.
5. Include a realistic estimation of the **costs for Open Access** to project outputs. Costs for providing immediate Open Access to publications (article processing charges/book processing charges) are eligible if they are incurred during the lifetime of the project.
6. **Describe any existing resources not requiring EU funding that will be used for the project**, such as infrastructure and equipment.
7. If applicable, specify the cost items covered by your 'Other personnel'. If applicable, specify the cost items covered by your 'Other personnel costs' category and the cost items covered by your 'Other additional direct costs' category.

The budget

All funding requested is assessed during second step of the evaluation process.

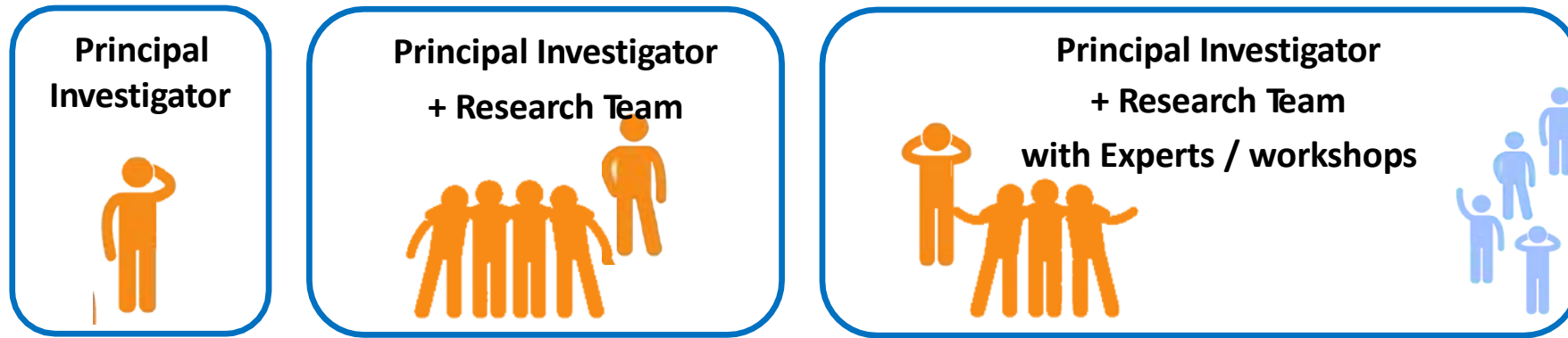
These costs are justified separately in the proposal. There is no definition of “equipment” or “facilities” and all requests will be evaluated by the peer review panel.

Forms A: description of resources + budget table

Part B1 y Part B2: description of team composition + key equipment.

** no todos los revisores van a llegar a leerse los forms A*

The PI + Team Members



El/la PI lidera el proyecto (no hay más PIs que generen consorcio o que sumen para evaluar el perfil individual)

El PI elige a sus **team members**, que participarán en este proyecto ERC.

Team members: personal de investigación de cualquier nivel: PhD students, Postdocs, personal técnico, personal especialista (senior staff), ...

A nivel de propuesta se definen roles necesarios.

A nivel de propuesta, los **team members** deben estar asignados a tareas/objetivos concretos del proyecto. Su participación debe ser necesaria.

Ethics self-assessment

Ethics self-assessment

Forms A. Part 4. Ethics issues table + **Ethics Self-Assessment**

ETC Proposal Submission Forms
European Research Council Executive Agency

Proposal ID: SEP-210640062 Acronym: CoG 2020

4 - Ethics

1. HUMAN EMBRYOS/FOETUSES		Page
Does your research involve <u>Human Embryonic Stem Cells (hESCs)</u> ?	☐ Yes ☒ No	
Does your research involve the use of human embryos?	☐ Yes ☒ No	
Does your research involve the use of human foetal tissues / cells?	☐ Yes ☒ No	
2. HUMANS		Page
Does your research involve human participants?	☒ Yes ☐ No	
Does your research involve physical interventions on the study participants?	☐ Yes ☒ No	
3. HUMAN CELLS / TISSUES		Page
Does your research involve human cells or tissues (other than from Human Embryos/Foetuses, i.e. section 1)?	☐ Yes ☒ No	
4. PERSONAL DATA		Page
Does your research involve personal data collection and/or processing?	☐ Yes ☒ No	
Does your research involve further processing of previously collected personal data (secondary uses)?	☐ Yes ☒ No	
5. ANIMALS		Page
Does your research involve animals?	☐ Yes ☒ No	
6. THIRD COUNTRIES		Page
In case non-EU countries are involved, do the research related activities undertaken in these countries raise potential ethics issues?	☐ Yes ☒ No	
Do you plan to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc.)?	☐ Yes ☒ No	
Do you plan to import any material - including personal data - from non-EU countries into the EU?	☐ Yes ☒ No	
Do you plan to export any material - including personal data - from the EU to non-EU countries?	☐ Yes ☒ No	
In case your research involves <u>low and/or lower middle income countries</u> , are any benefits sharing actions planned?	☐ Yes ☒ No	
Could the situation in the country put the individuals taking part in the research at risk?	☐ Yes ☒ No	

ETC Proposal Submission Forms
European Research Council Executive Agency

Proposal ID: SEP-210640062 Acronym: CoG 2020

7. ENVIRONMENT & HEALTH AND SAFETY		Page
Does your research involve the use of elements that may cause harm to the environment, to animals or plants?	☐ Yes ☒ No	
Does your research deal with endangered fauna and/or flora and/or protected areas?	☐ Yes ☒ No	
Does your research involve the use of elements that may cause harm to humans, including research staff?	☐ Yes ☒ No	
8. DUAL USE		Page
Does your research involve dual-use items in the sense of Regulation 428/2009, or other items for which an authorisation is required?	☐ Yes ☒ No	
9. EXCLUSIVE FOCUS ON CIVIL APPLICATIONS		Page
Could your research raise concerns regarding the exclusive focus on civil applications?	☐ Yes ☒ No	
10. MISUSE		Page
Does your research have the potential for misuse of research results?	☐ Yes ☒ No	
11. OTHER ETHICS ISSUES		Page
Are there any other ethics issues that should be taken into consideration? Please specify	☐ Yes ☒ No	

I confirm that I have taken into account all ethics issues described above and that, if any ethics issues apply, I will complete the ethics self-assessment and attach the required documents. ☐

[How to Complete your Ethics Self-Assessment](#)

Ethics self-assessment

Forms A. Part 4. Ethics issues table + **Ethics Self-Assessment**

Application forms [Table Of Contents](#) [Validate Form](#) [Save](#) [Save&Close](#)

Proposal ID: SEP-210805257
Acronym: prueba

Ethics Self-Assessment ?

Ethical dimension of the objectives, methodology and likely impact

Explain in detail the identified issues in relation to:

- objectives of the activities (e.g. study of vulnerable populations, etc.)
- methodology (e.g. clinical trials, involvement of children, protection of personal data, etc.)
- the potential impact of the activities (e.g. environmental damage, stigmatisation of particular social groups, political or financial adverse consequences, misuse, etc.)

Remaining characters: 5000

Compliance with ethical principles and relevant legislations

Describe how the issue(s) identified in the ethics issues table above will be addressed in order to adhere to the ethical principles and what will be done to ensure that the activities are compliant with the EU/national legal and ethical requirements of the country or countries where the tasks are to be carried out. It is reminded that for activities performed in a non-EU countries, they should also be allowed in at least one EU Member State.

Ethics Self-Assessment

- Ethical dimension of the objectives, methodology and likely impact
- Compliance with ethical principles and relevant legislations

Ethics self-assessment

Forms A. Annexes

The screenshot shows the 'Edit Proposal' step of the ERC-2020-ADG process. The top navigation bar includes 'LOGIN', 'FUNDING SCHEME', 'CREATE DRAFT', 'PARTIES', 'EDIT PROPOSAL', and 'SUBMIT'. The left sidebar displays proposal details: USER NAME (Laura MOHEDANO), TOPIC (ERC-2020-ADG), TYPE OF ACTION (ERC-ADG), ACRONYM (AdG Webinar), DRAFT ID (SEP-210685582), DEADLINE (August 2020 17:00:00), and 96 days left until closure. A 'Download Part B Templates' button is also present. The main content area shows a 'WARNING' box and a list of 'Extra annex' items (1-8) with 'upload' buttons. An arrow points from the 'upload' button for 'Extra annex 1' to the text 'ethical issues annexes'.

Step 5
Edit Proposal

ERC-2020-ADG

USER NAME: Laura MOHEDANO

TOPIC: ERC-2020-ADG

TYPE OF ACTION: ERC-ADG

ACRONYM: AdG Webinar

DRAFT ID: SEP-210685582

DEADLINE (Brussels Local Time): August 2020 17:00:00

96 days left until closure

Download Part B Templates

Visit our 'How to' user guide

Visit our 'H2020 Online Manual'

WARNING:

Administrative information

Edit will open a new window

Part B and Annexes

In this section you can upload any other relevant documents

Part B1

Part B2

Host Support

Extra annex 1

Extra annex 2

Extra annex 3

Extra annex 4

Extra annex 5

Extra annex 6

Extra annex 7

Extra annex 8

upload

upload

upload

upload

upload

upload

upload

upload

ethical issues annexes

<< Step 4 - Parties validate submit

Adjuntar cualquier autorización o permiso recabado para el trabajo propuesto. Se han de incluir copias (no cuentan para el límite de páginas de la propuesta porque se adjunta como anexos).

Los documentos se deben presentar en un idioma oficial de la UE o el documento original junto con una traducción certificada en inglés o otra lengua oficial de la UE.

- Por ej. **Informe comité ética instituciones participantes, Formulario de consentimiento de voluntarios, Documentos informativos y de consentimiento informado para la Realización de la prueba,..**

Para facilitar el análisis de las cuestiones éticas: proporcionar un resumen en inglés de la documentación que se adjunta cuando estos documentos no estén en inglés.

Ethics self-assessment

Part B2

Proporcionar una descripción narrativa de los problemas éticos asociados a la propuesta (en), asegurándose de cubrir todos los temas marcados en la tabla de cuestiones éticas.

- Descripción de los posibles problemas éticos de la acción propuesta con respecto a sus objetivos; la metodología y las posibles implicaciones de los resultados;
- Explicación de cómo se cumplirán los requisitos éticos establecidos en el programa de trabajo;
- Declaración sobre cómo la propuesta cumple con los requisitos éticos y legales nacionales de la UE y / o del tercer país donde se llevará a cabo la acción;
- Indicación de qué autorizaciones particulares pueden ser necesarias durante la vida del proyecto.

Final message

DO NOT EXCLUDE

Yourself from participating in ERC calls

- **Take risks**, explain your project's high scientific impact if you reach your aims, and **provide evidence that you can do it**.
- **If you fail, try again!** Gain experience from evaluation. Panel feedback is useful and resubmissions have higher success rate.

| 76

¡MUCHAS GRACIAS!



erc@fecyt.es

estefania.munoz@fecyt.es



@horizonteeuropa

@StefiMNZ